



"METHOD AND APPARATUS FOR CREATING A WELLFORMED DATABASE SYSTEM USING A COMPUTER"
Inventors: Craig David Weissman, Gregory Vincent Walsh, Eliot Leonard Wegbreit
Application No. 09/073,748

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Fig 1

Fig 1A Fig 1B

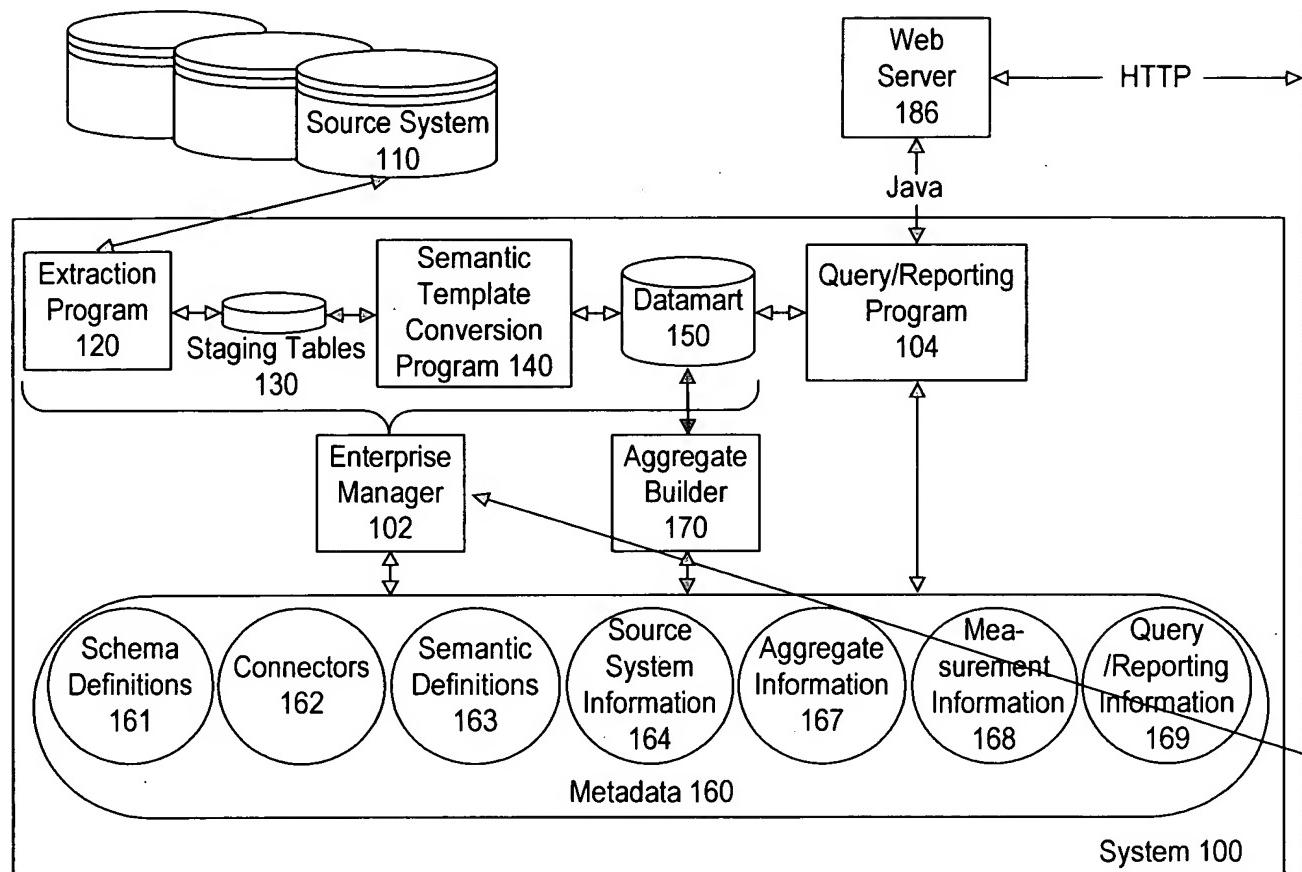


Figure 1A

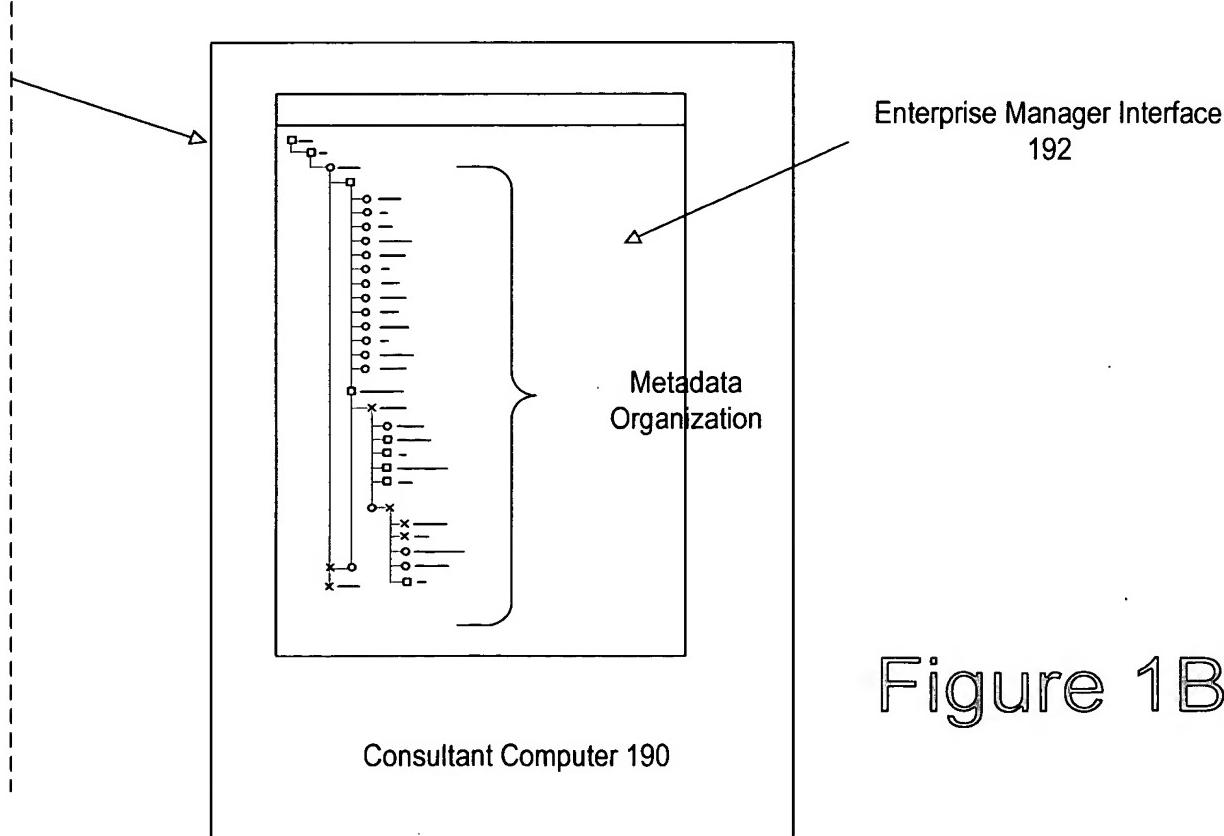
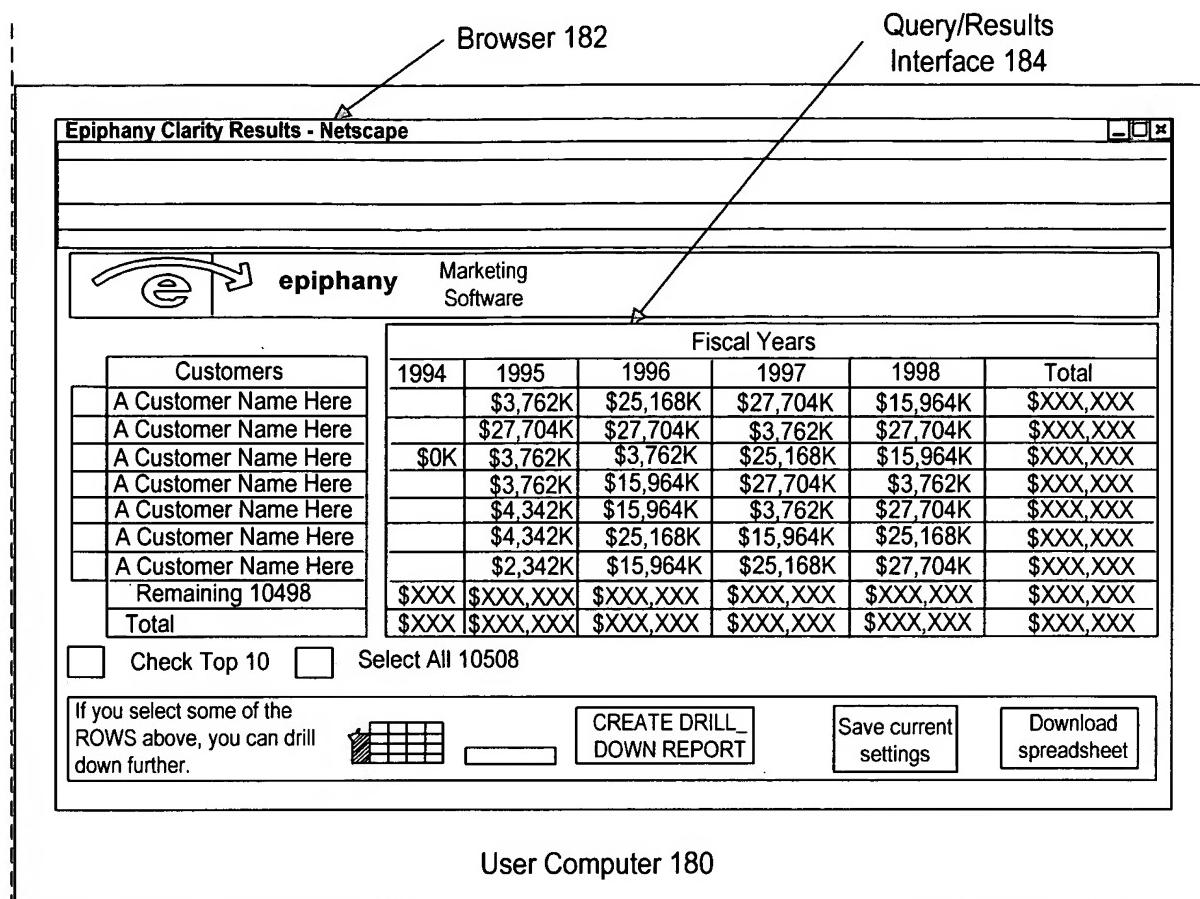


Figure 1B

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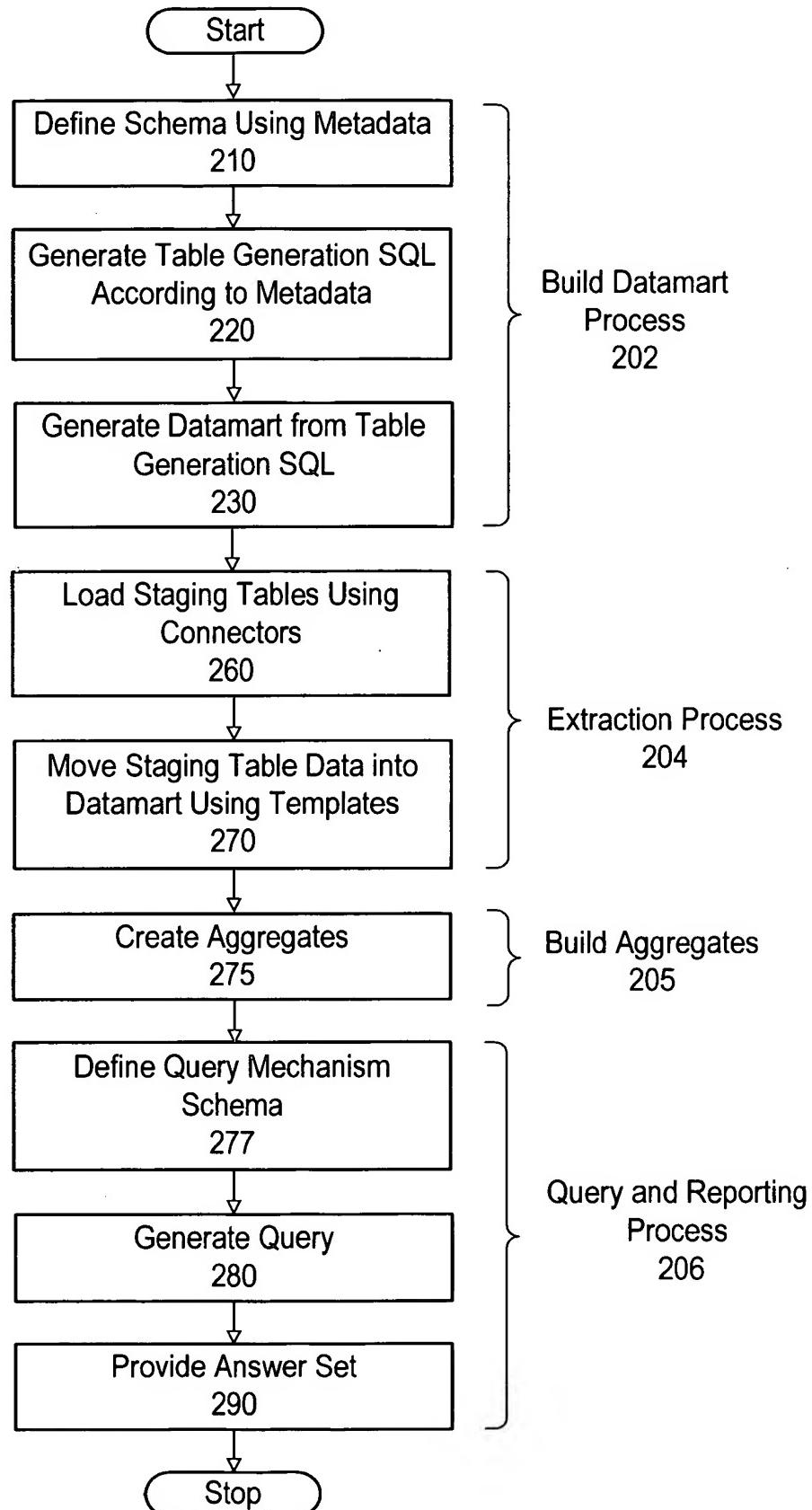


Figure 2

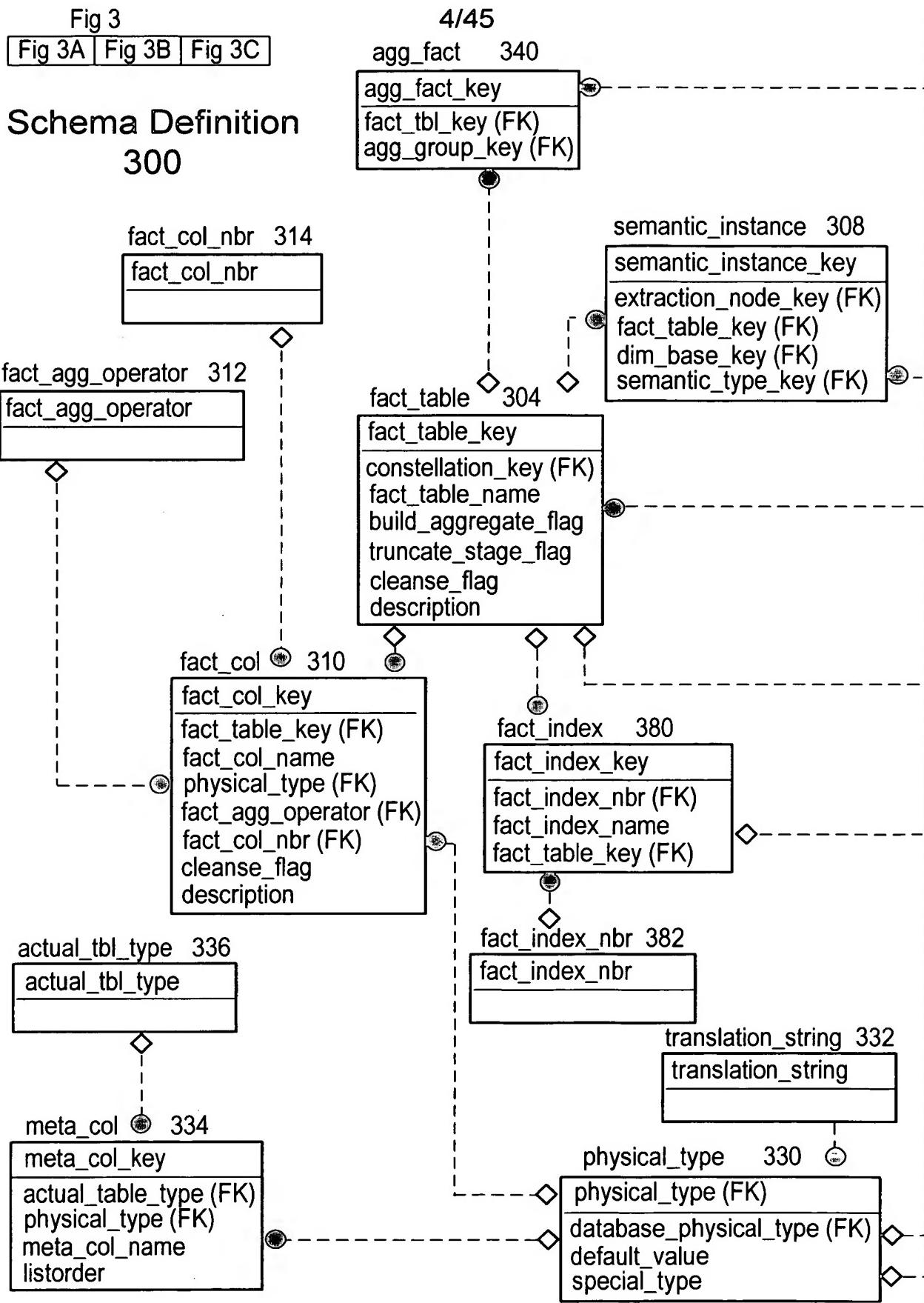


Figure 3A

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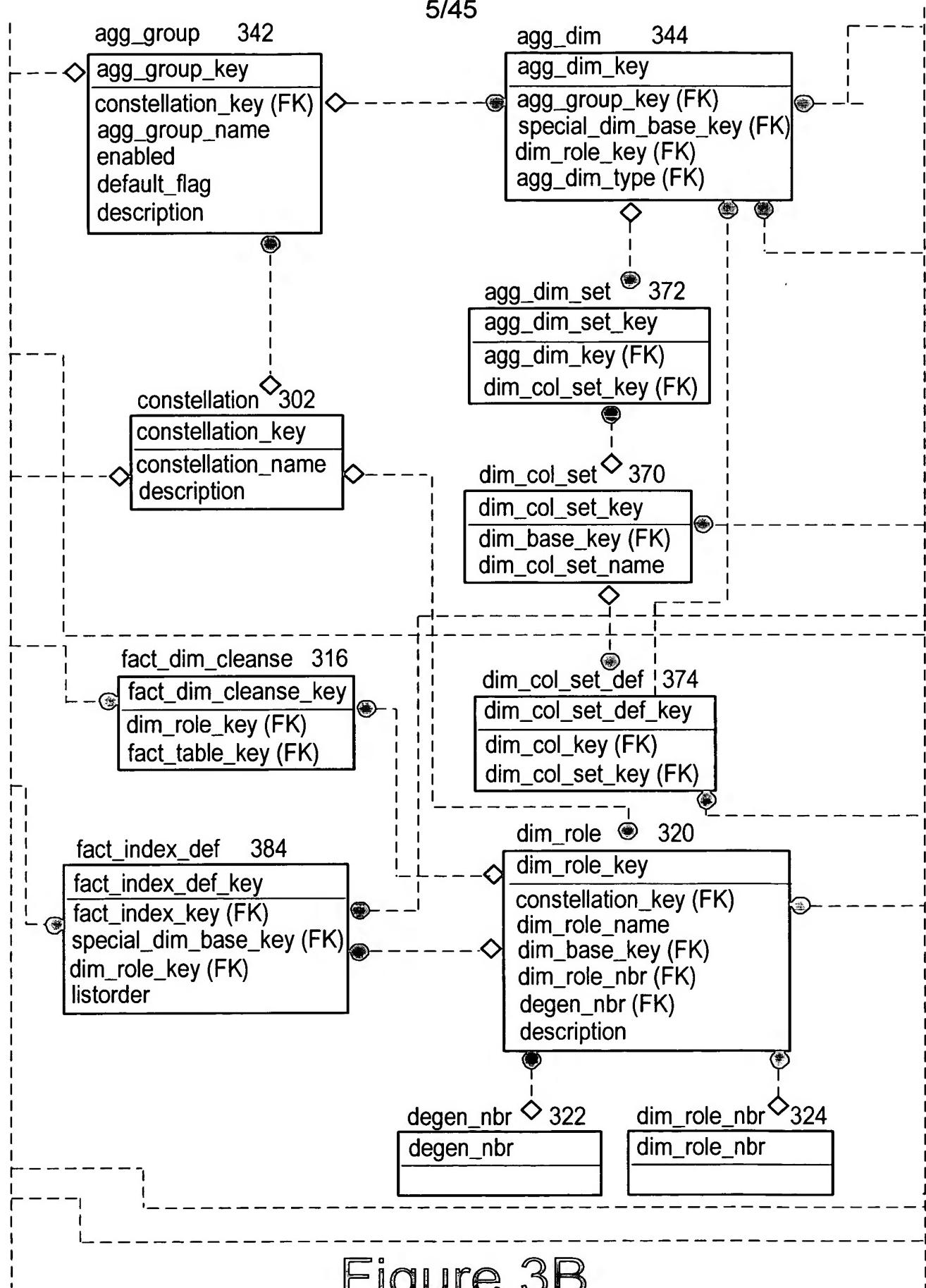


Figure 3B

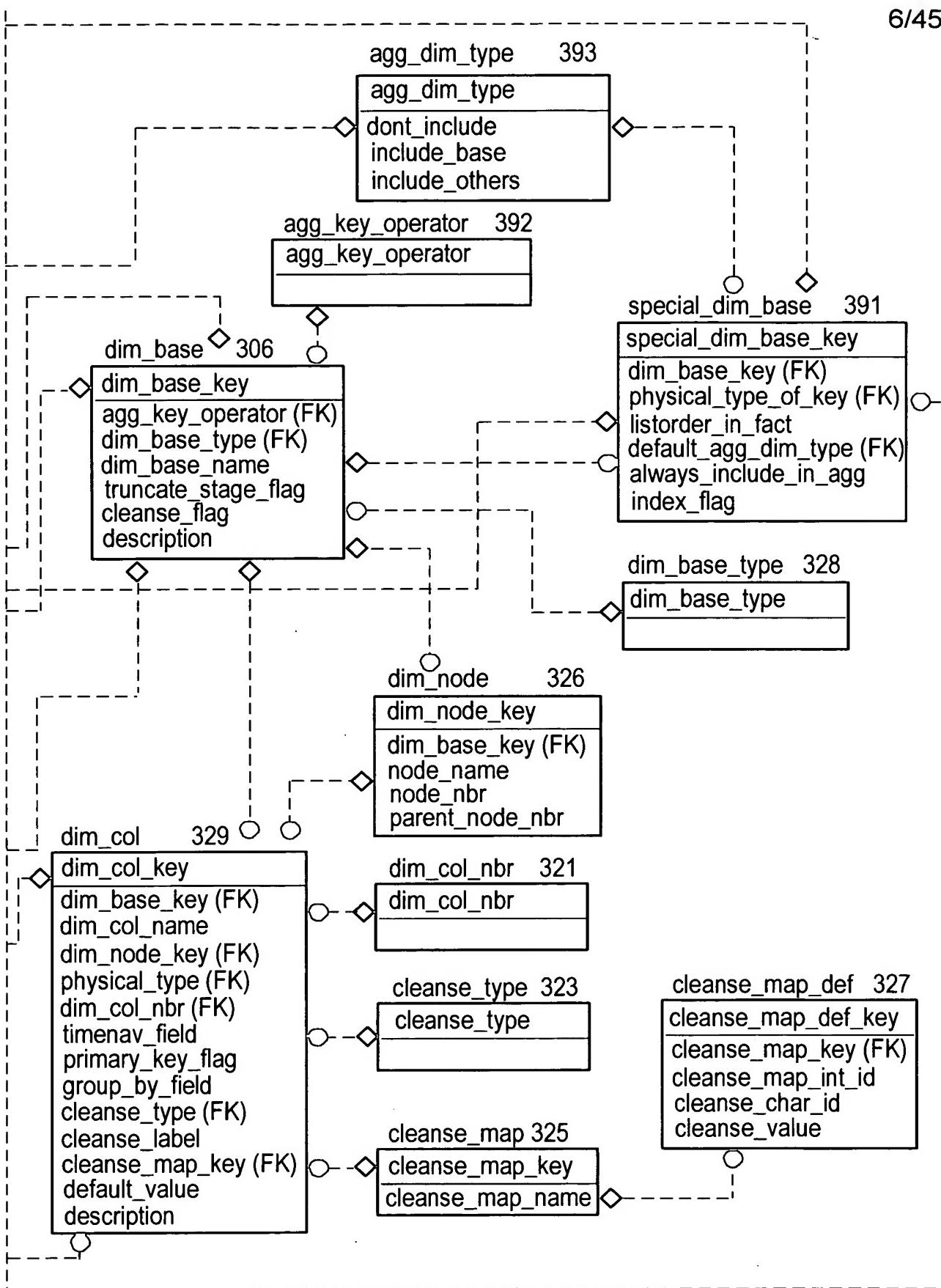


Figure 3C

Fig 4

Fig 4A | Fig 4B | Fig 4C

system_call 405

system_call_key
job_step_key (FK)
name
command_stnng
on_error_type (FK)
description

connector 406

connector_key
name
description

connector_timestamp 407

connector_timestamp_key
connector_key (FK)
last_max_date
current_max_date
last_max_timestamp
current_max_timestamp

connector_col_latch 409

connector_col_latch_key
connector_key (FK)
tbl_name
col_name
last_max_value
current_max_value

external_col 424

external_col_key
physical_type (FK)
external_table_key (FK)
external_col_name
listorder
description

physical_type 330

physical_type (FK)
physical_type (FK)
database_physical_type (FK)
default_value
special_type

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job_step 404

job_step_key
job_step_type (FK)
job_key (FK)
connector_key (FK)
listorder
phase
enabled
description

job_step_type 481

job_step_type
job_step_type_name

extraction_node_type 491

extraction_node_type
extraction_node_type_name

extraction_group 411

extraction_group_key
extraction_group_name
description

connector_step 408

connector_step_key
connector_key (FK)
extraction_node_key (FK)
listorder
phase
enabled

sql_statement 420

sql_statement_key
extraction_code_key (FK)
sql_statement_name
dim_base_key (FK)
fact_table_key (FK)
external_table_key (FK)
sql
exec_against_input_flag
execute_only_flag
description

external_tbl 422

external_tbl_key
external_tbl_name
truncate_stage_flag
description

Figure 4A

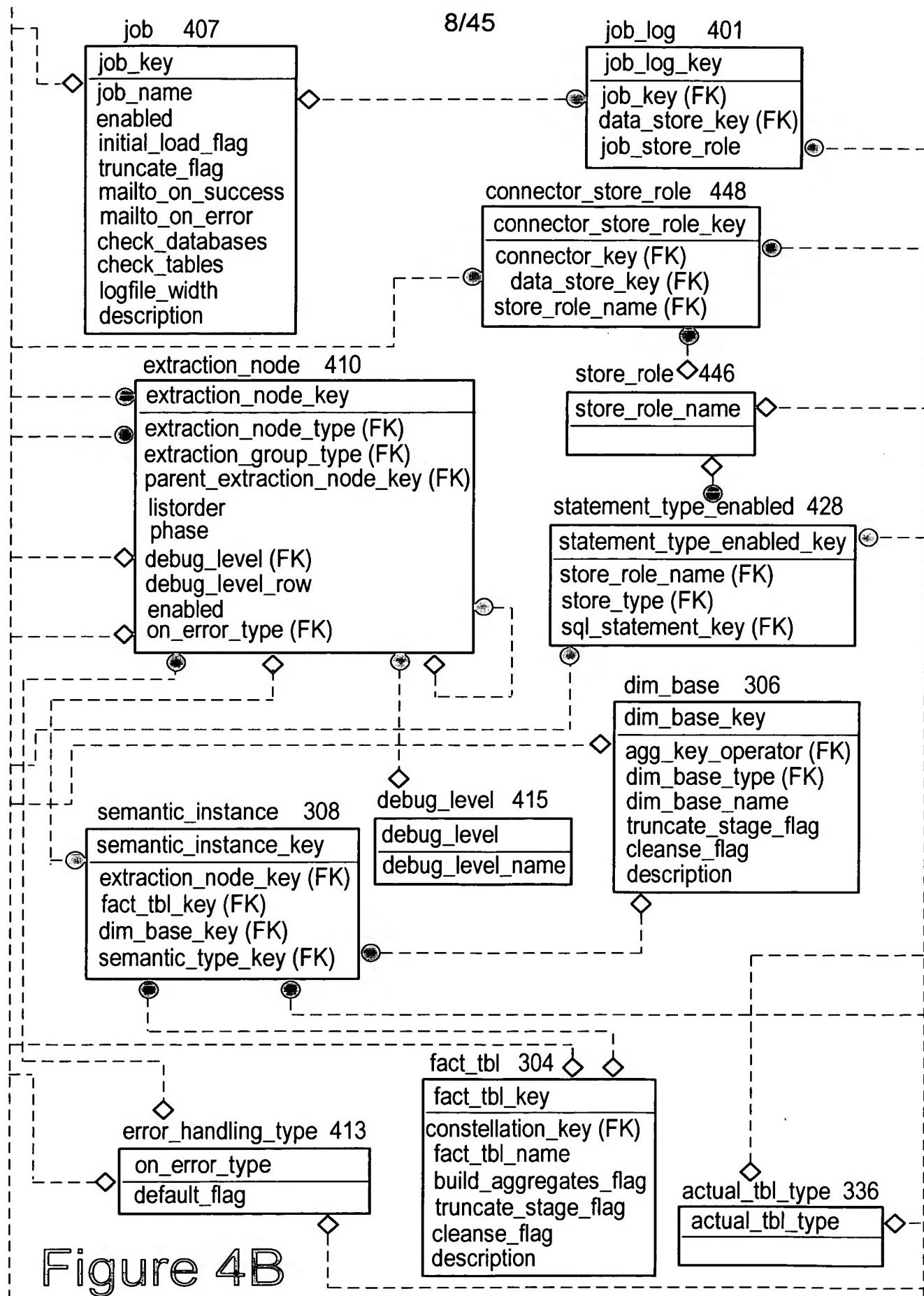


Figure 4B

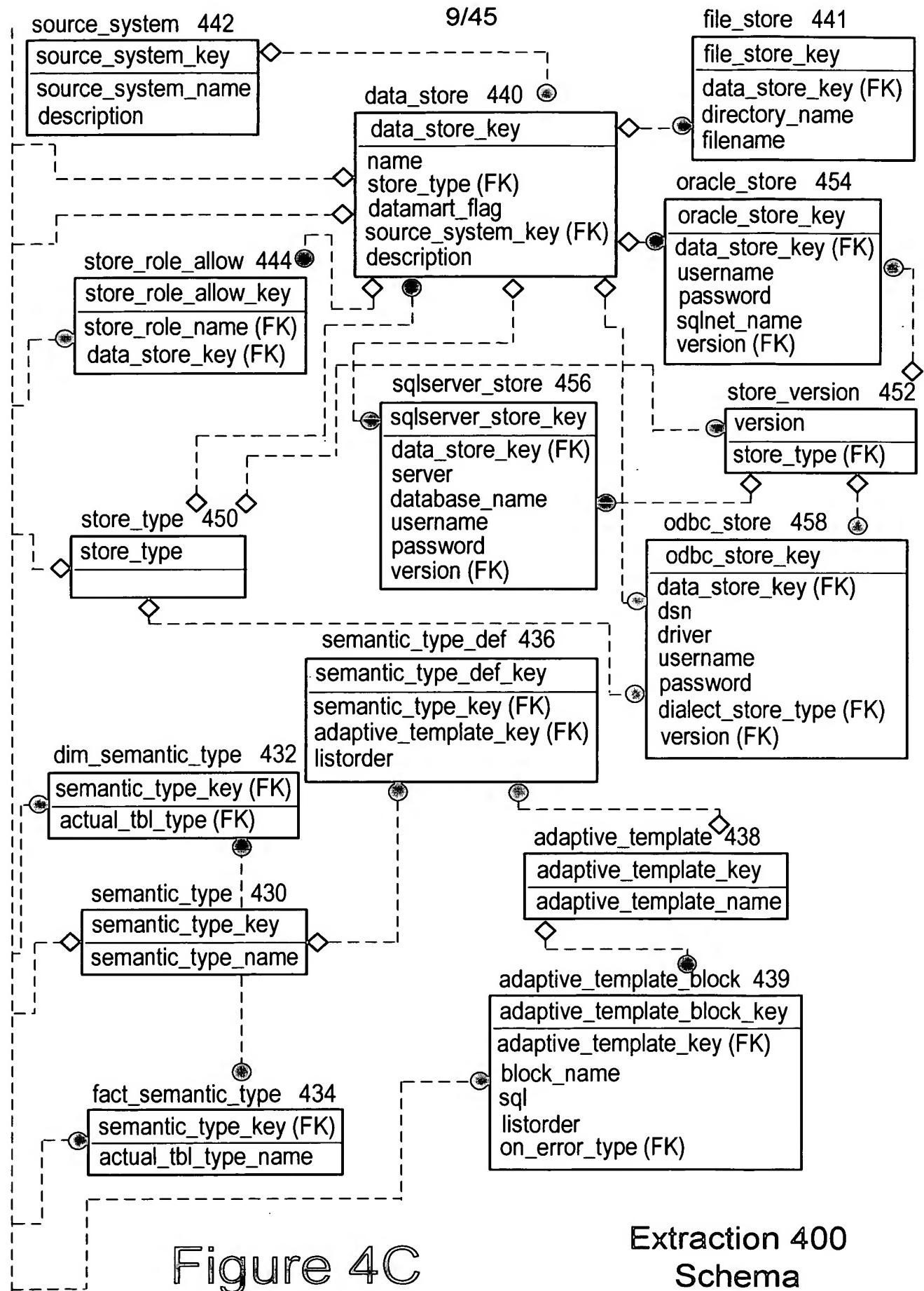


Fig 5

Fig 5A Fig 5B Fig 5C

Runtime Schema
500

bus_process 570

process_key
process_name

adaptive_template_profile 580

token_name
number_rows
listorder

transtype_0 590

transtype_key
name
description

Date_0 560

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date_key
day_name
day_name_char
day_name_char_weekday
day_number_in_week
day_number_in_month
day_number_in_cq
day_number_in_fq
day_number_in_fy
day_number_in_cy
day_number_til_end_cq
day_number_til_end_fq
day_month_end
day_month_begin
day_fq_end
day_cq_end
day_fy_end
day_cy_end
day_fq_begin
day_cq_begin
day_fy_begin
day_cy_begin
week_number
week_number_fy
week_number_cy
week_number_fq
week_number_cq
week_number_til_end_fq
week_number_til_end_cq
week_number_til_end_fy
week_number_til_end_cy
week_monday
week_friday
week_saturday
week_sunday
weekday
month_name
month_number
month_number_in_fq
month_number_in_cq
month_number_in_fy
month_number_in_cy
month_and_fy_name
month_and_cy_name
month_number_til_end_cy
fq_name
fy_name
fq_and_fy_name
cq_name
cy_name
cq_and_cy_name

Figure 5A

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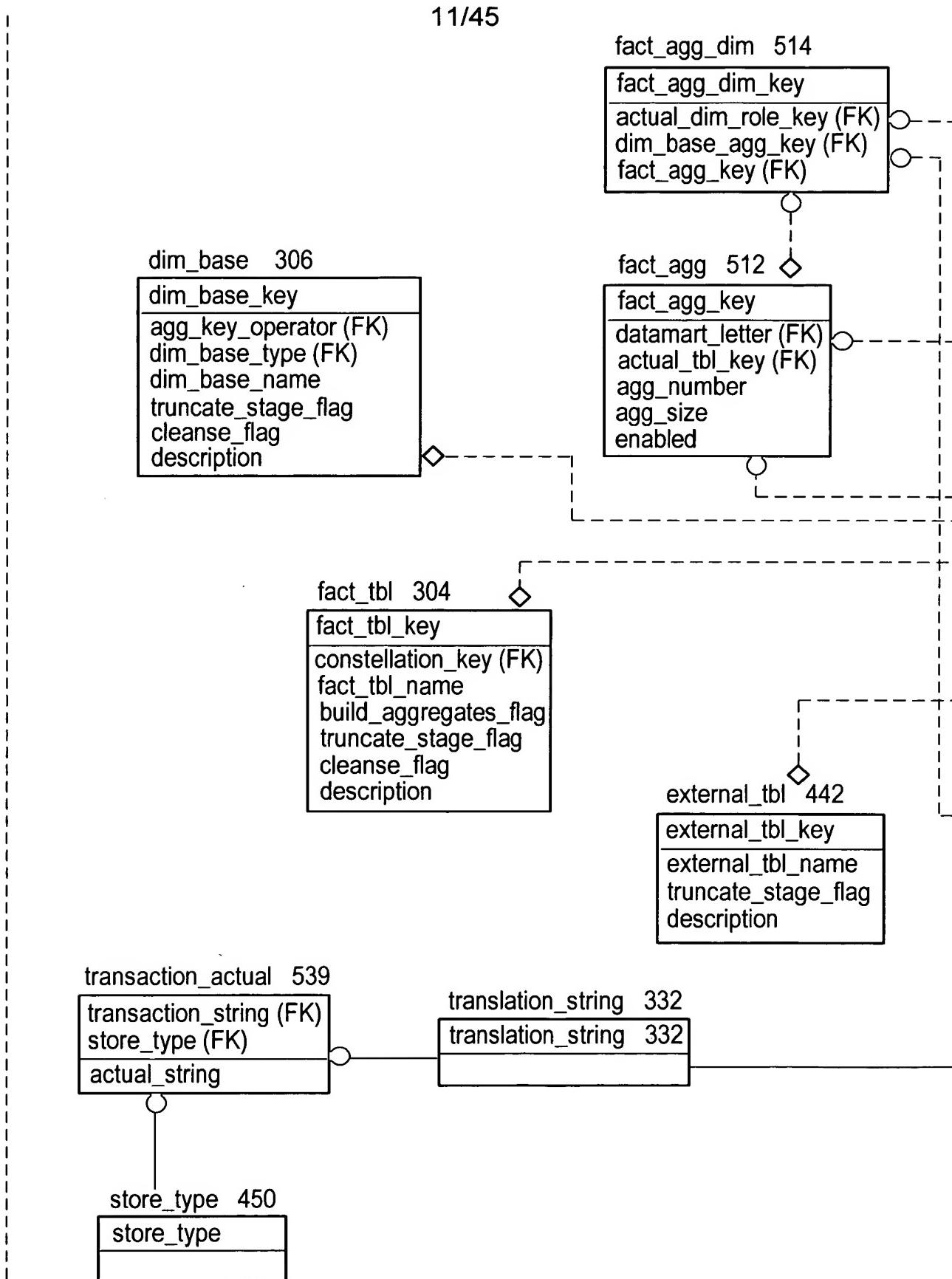


Figure 5B

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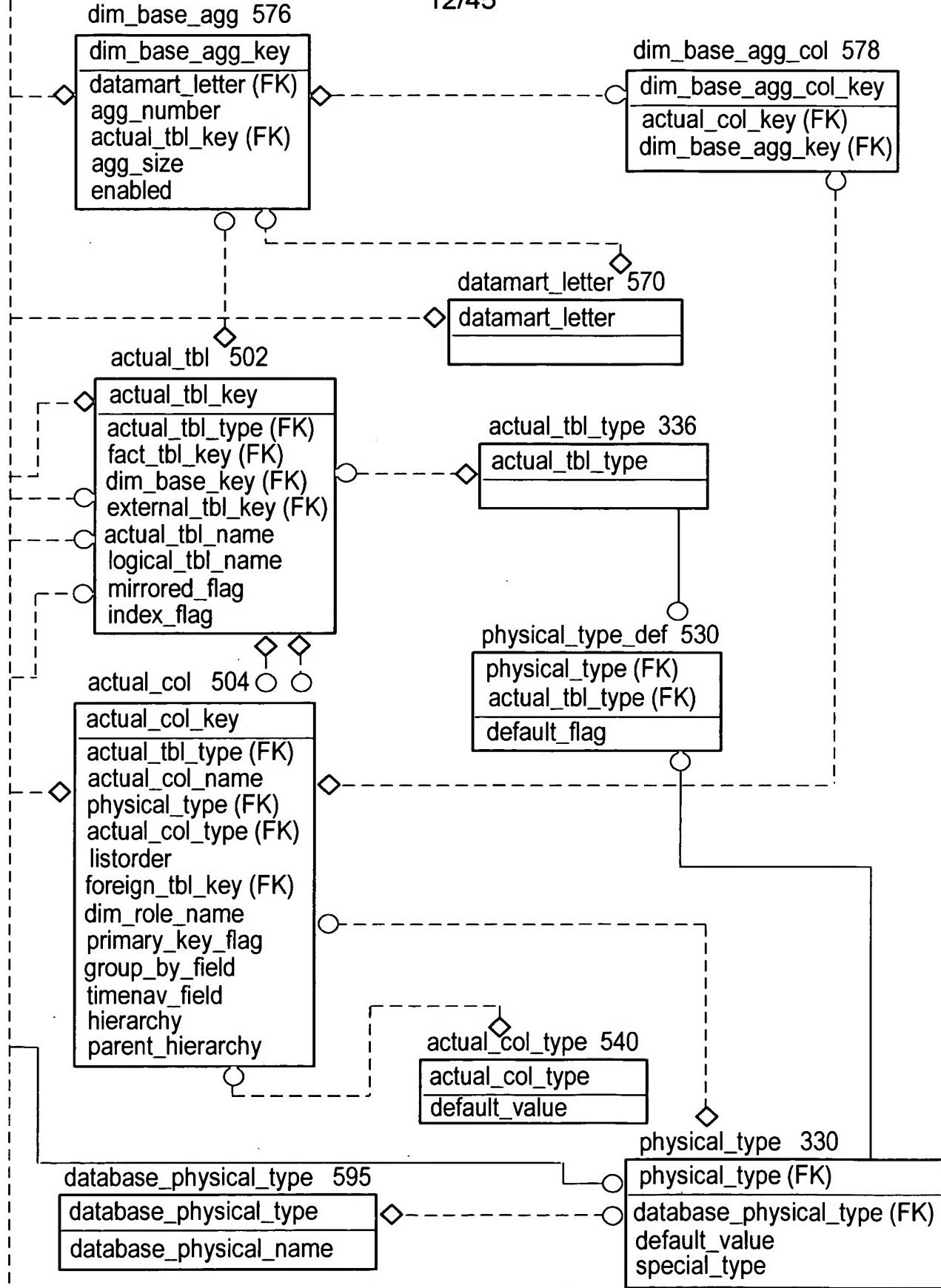


Figure 5C

Fig 6

Fig 6A | Fig 6B | Fig 6C

option_value 664

option_value_key
option_name_key (FK)
value
label
dictionary_key (FK)
listorder

option_location 662

option_location

option_name 666

option_name_key
name
label
dictionary_key (FK)

option_display_type 668

option_display_type

filter_element 656

filter_element_key
filter_group_key (FK)
listorder
value
label
dictionary_key (FK)
sql_statement

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fact_tbl 304

fact_tbl_key
constellation_key (FK)
fact_tbl_name
build_aggregates_flag
truncate_stage_flag
cleanse_flag
description

fact_col 310

fact_col_key
fact_tbl_key (FK)
fact_col_name
physical_type (FK)
fact_agg_operator (FK)
fact_col_nbr (FK)
cleanse_flag
description

measure_term 630

measure_term_key
measure_key (FK)
listorder
backlog_type (FK)
rpn_operator (FK)
transtype_key (FK)
term_operator (FK)
fact_col_key
fact_tbl_key (FK)

transtype_0 590

transtype_key
name
description

ticksheet_type_options 660

ticksheet_type_options_key
options_location (FK)
ticksheet_type (FK)
option_name_key (FK)
option_display_type (FK)
listorder

dictionary 640

dictionary_key
name
helptext

filter_block_type 652

filter_block_type

filter_group 654

filter_group_key
filter_block_key (FK)
label
dictionary_key (FK)
listorder
description

Figure 6A

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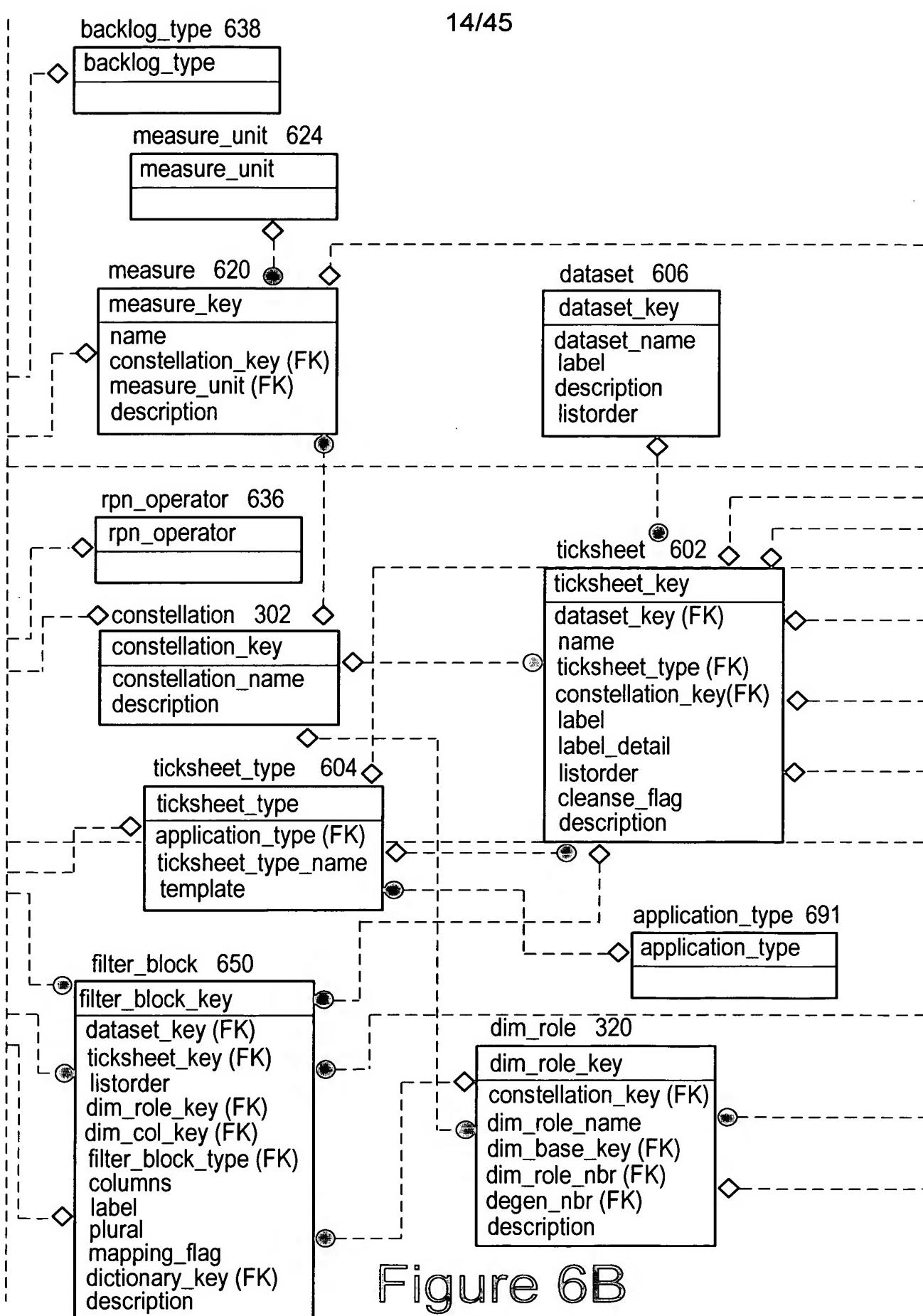


Figure 6B

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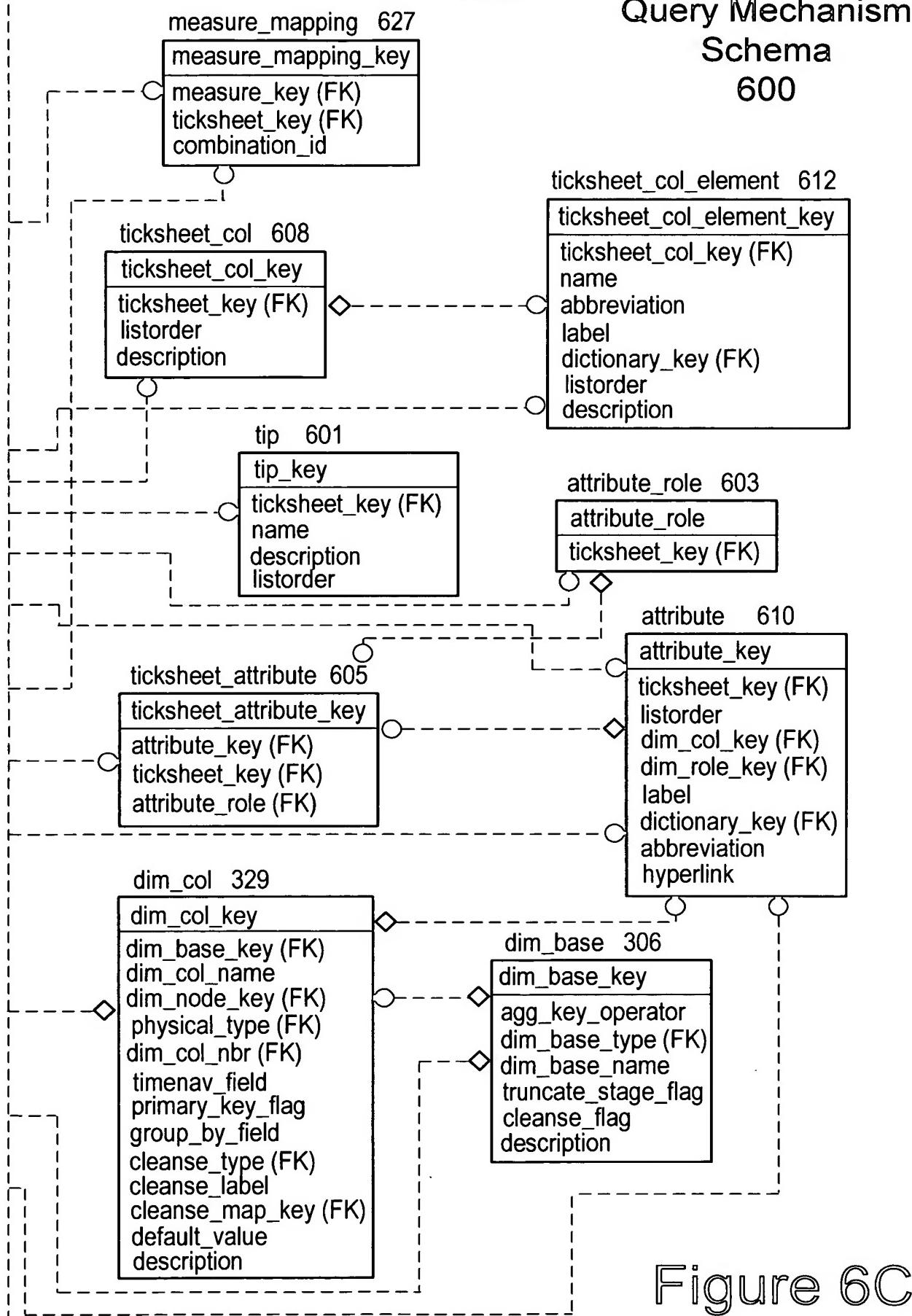
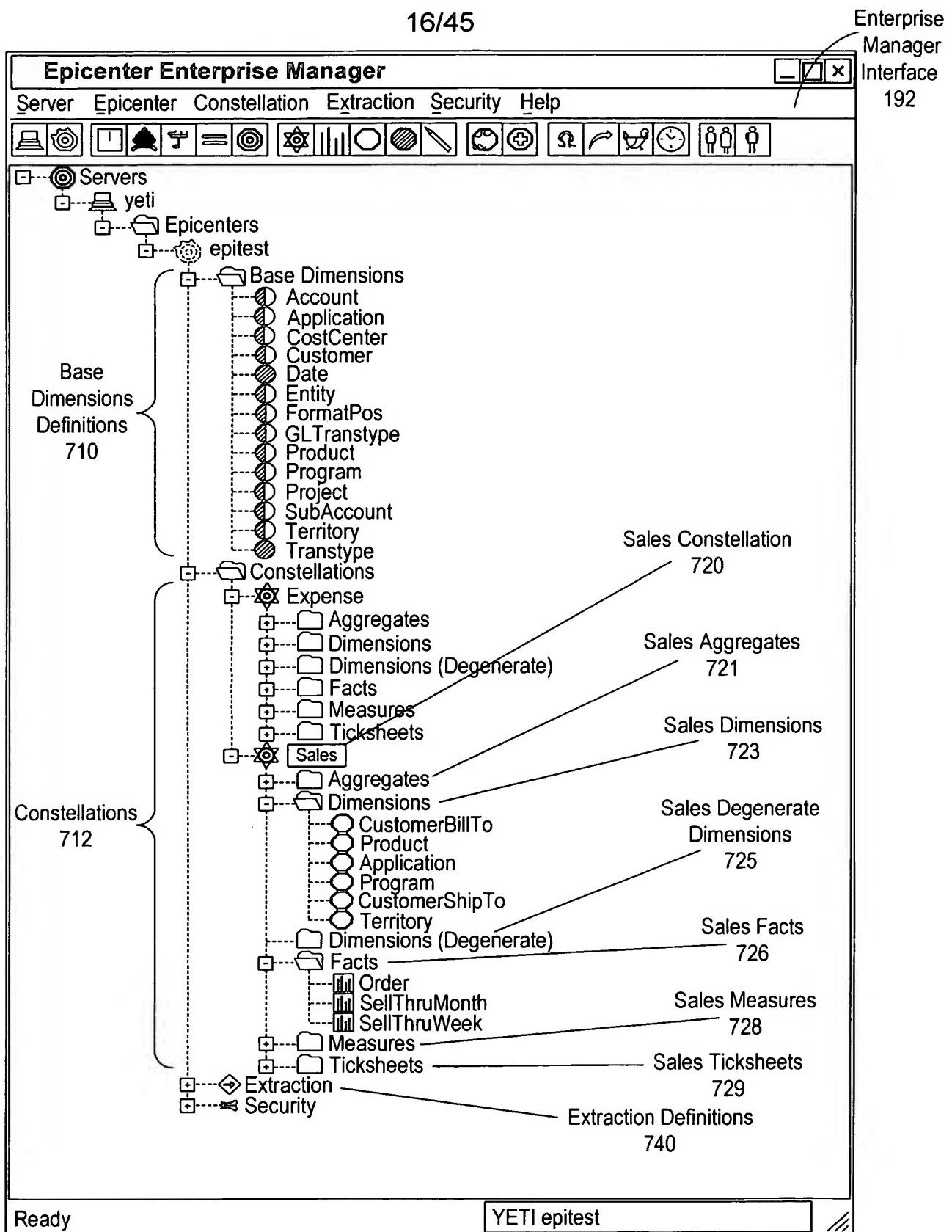


Figure 6C

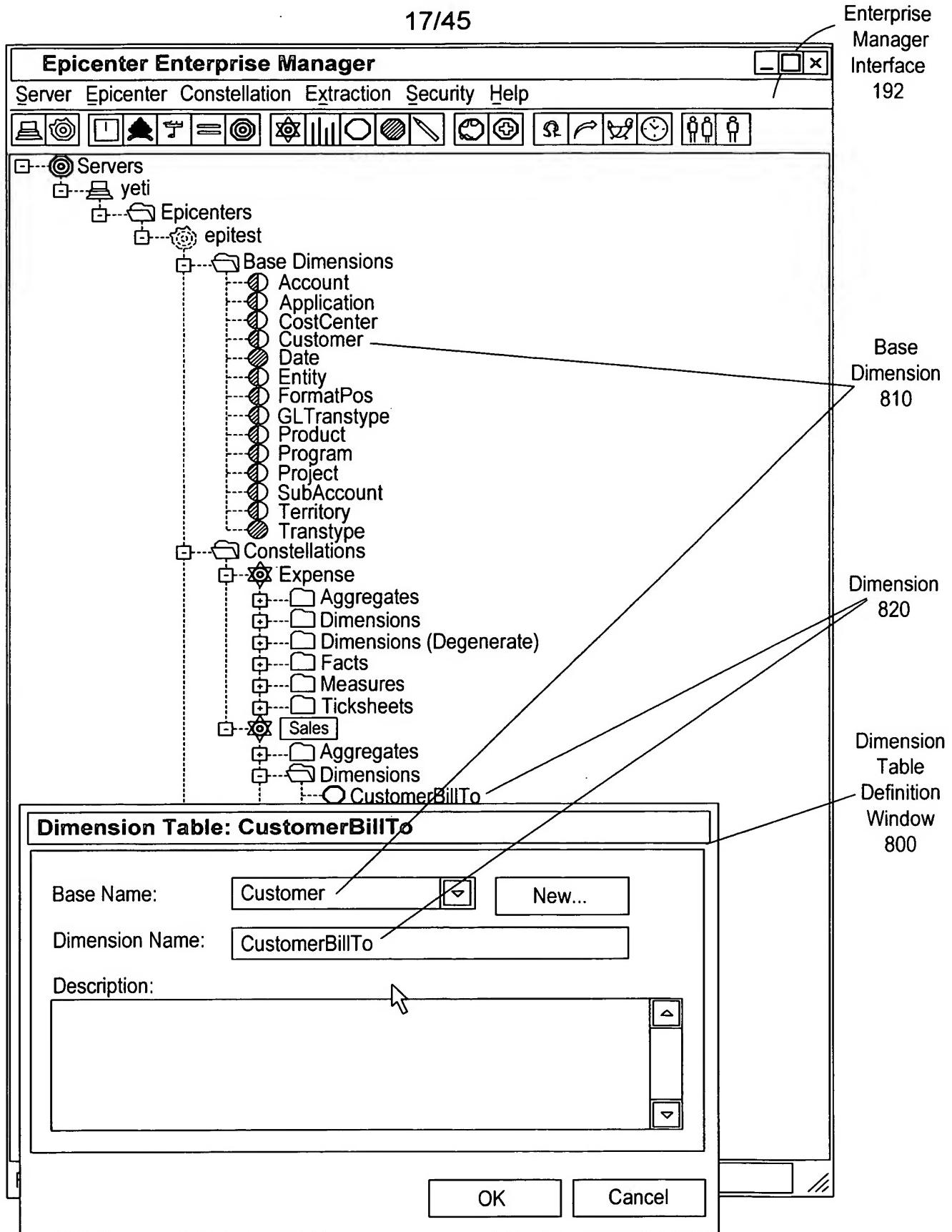
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Enterprise
Manager
Interface
192

Figure 7

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Enterprise
Manager
Interface
192

Base
Dimension
810

Dimension
820

Dimension
Table
Definition
Window
800

Dimension Table: CustomerBillTo

Base Name:

Customer

New...

Dimension Name:

CustomerBillTo

Description:

OK

Cancel

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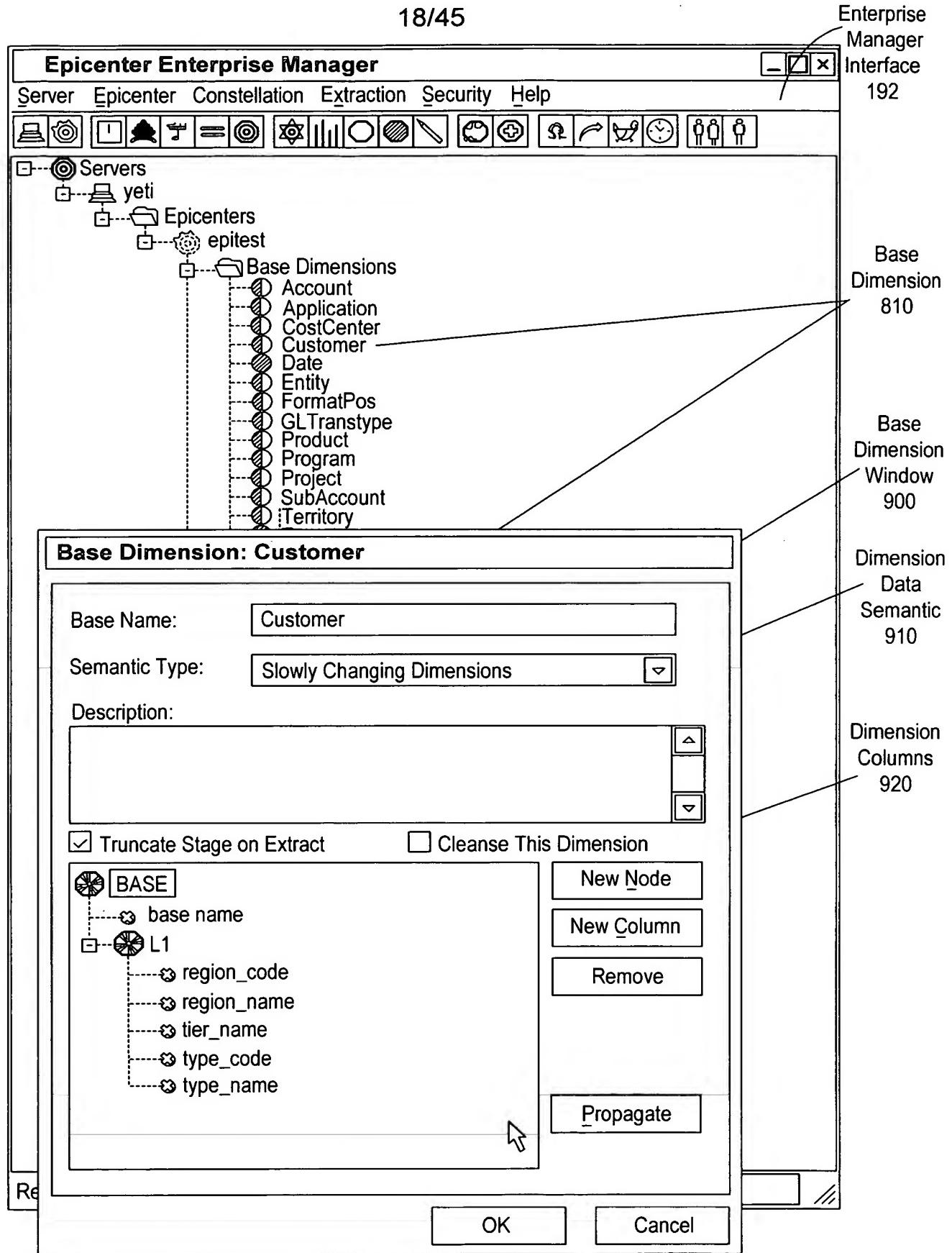


Figure 9

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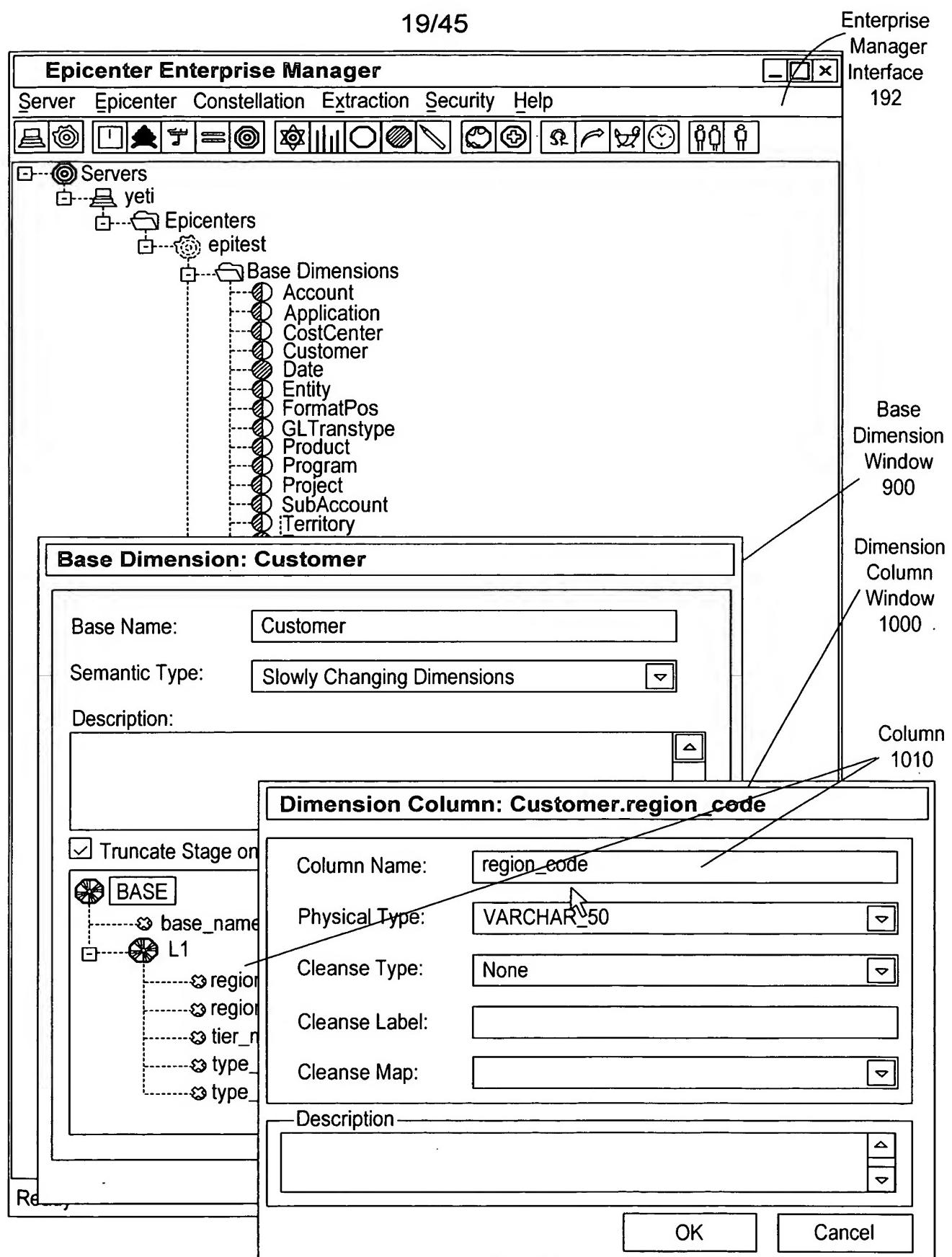


Figure 10

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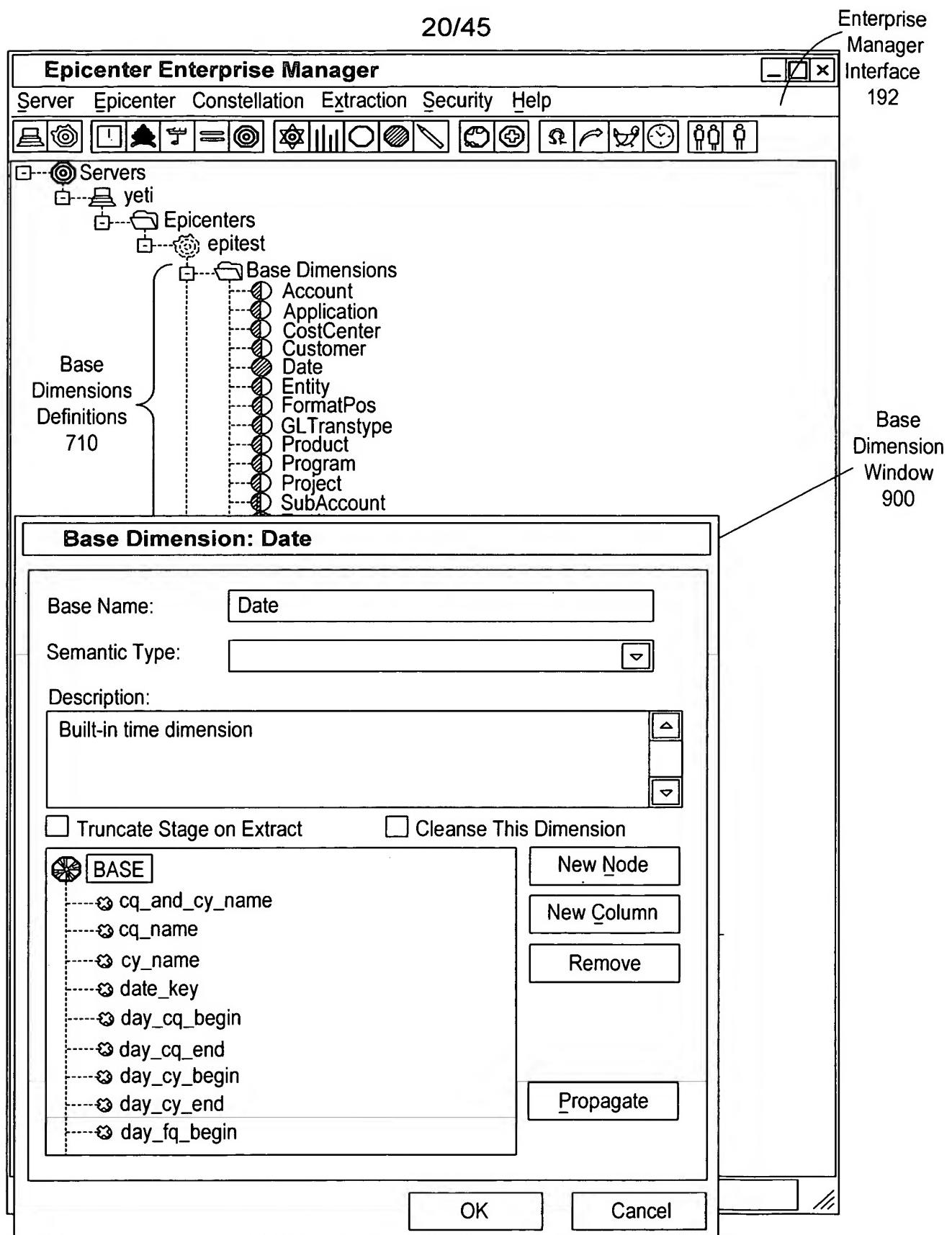


Figure 11

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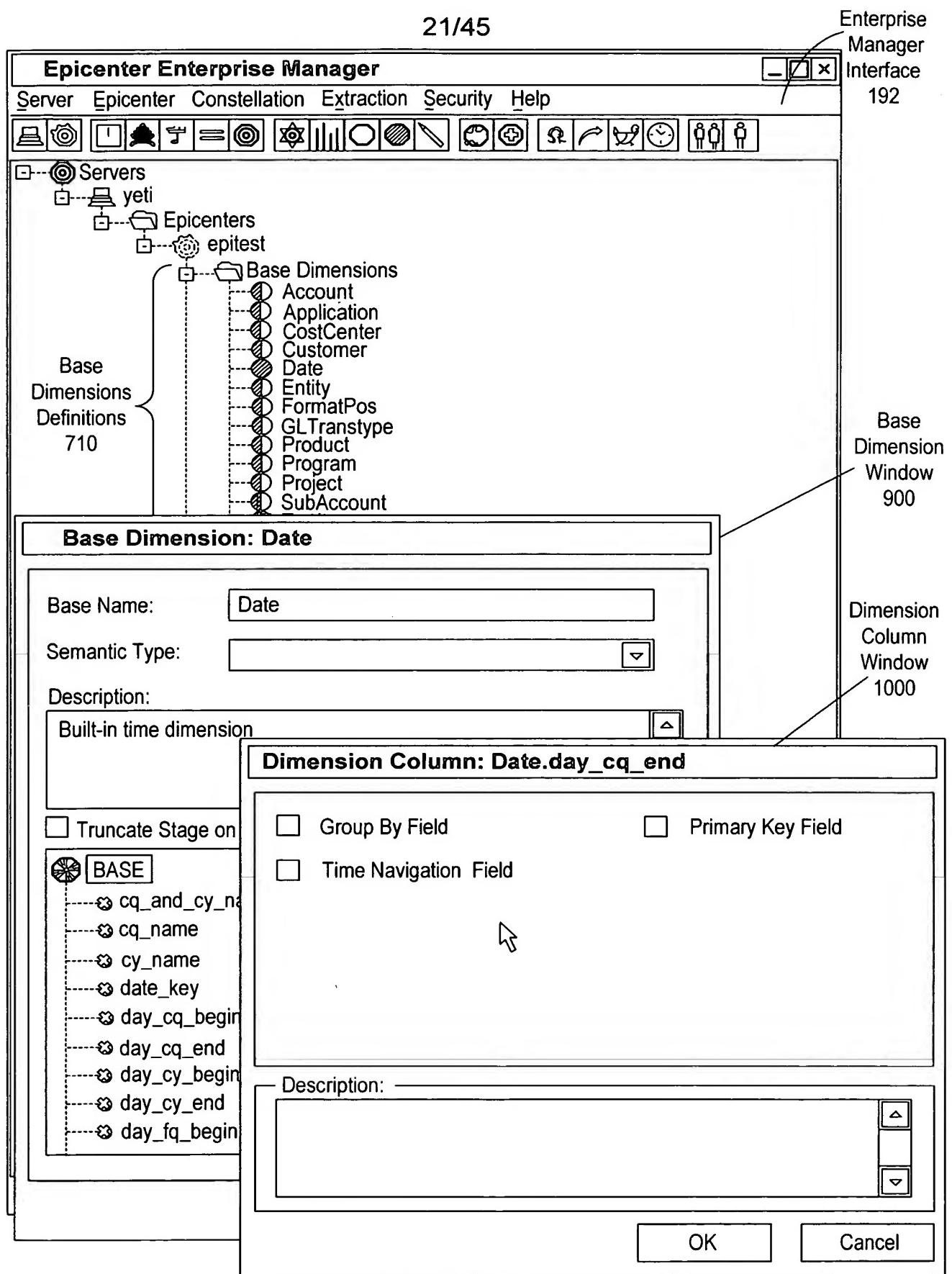


Figure 12

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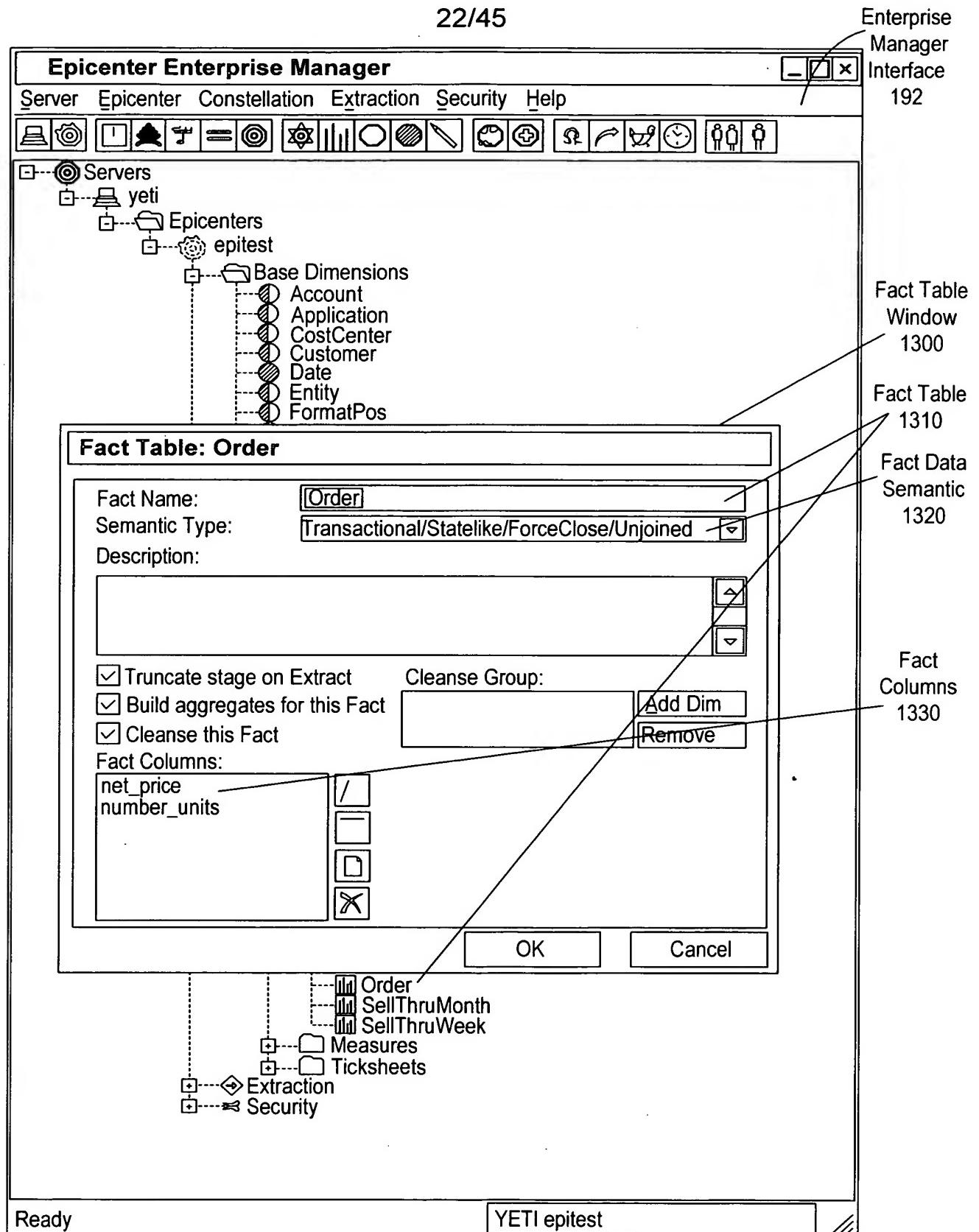


Figure 13

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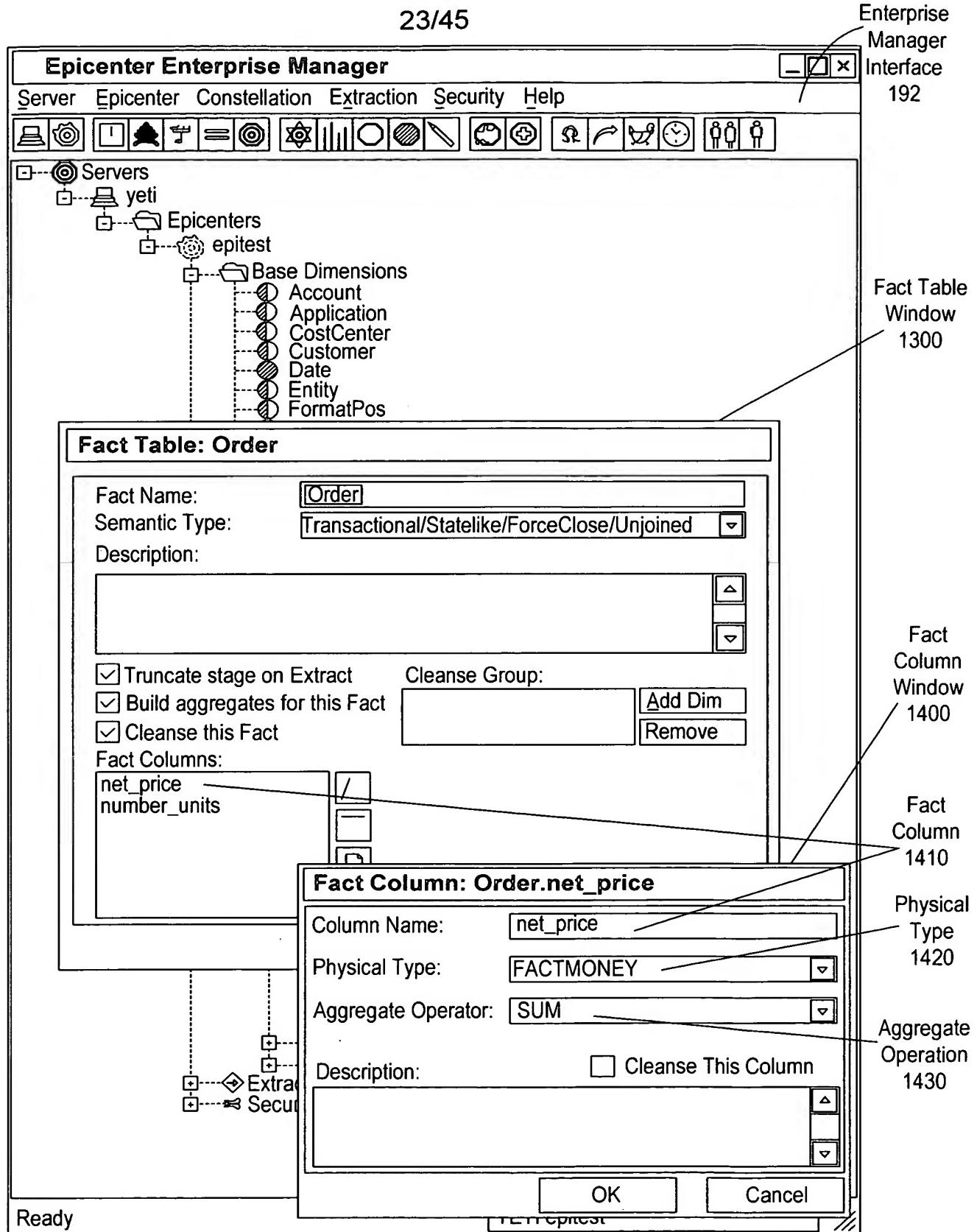


Figure 14

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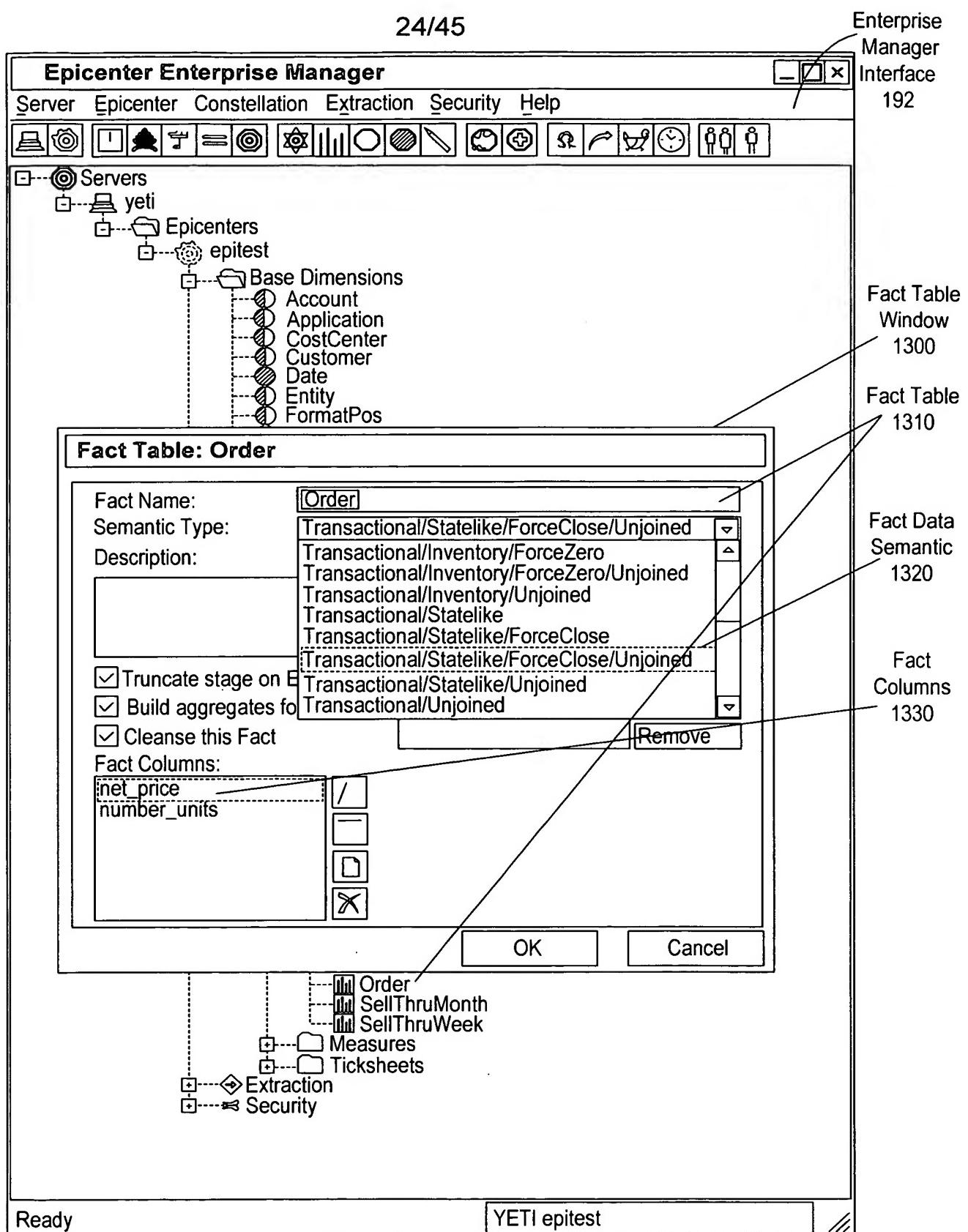


Figure 15

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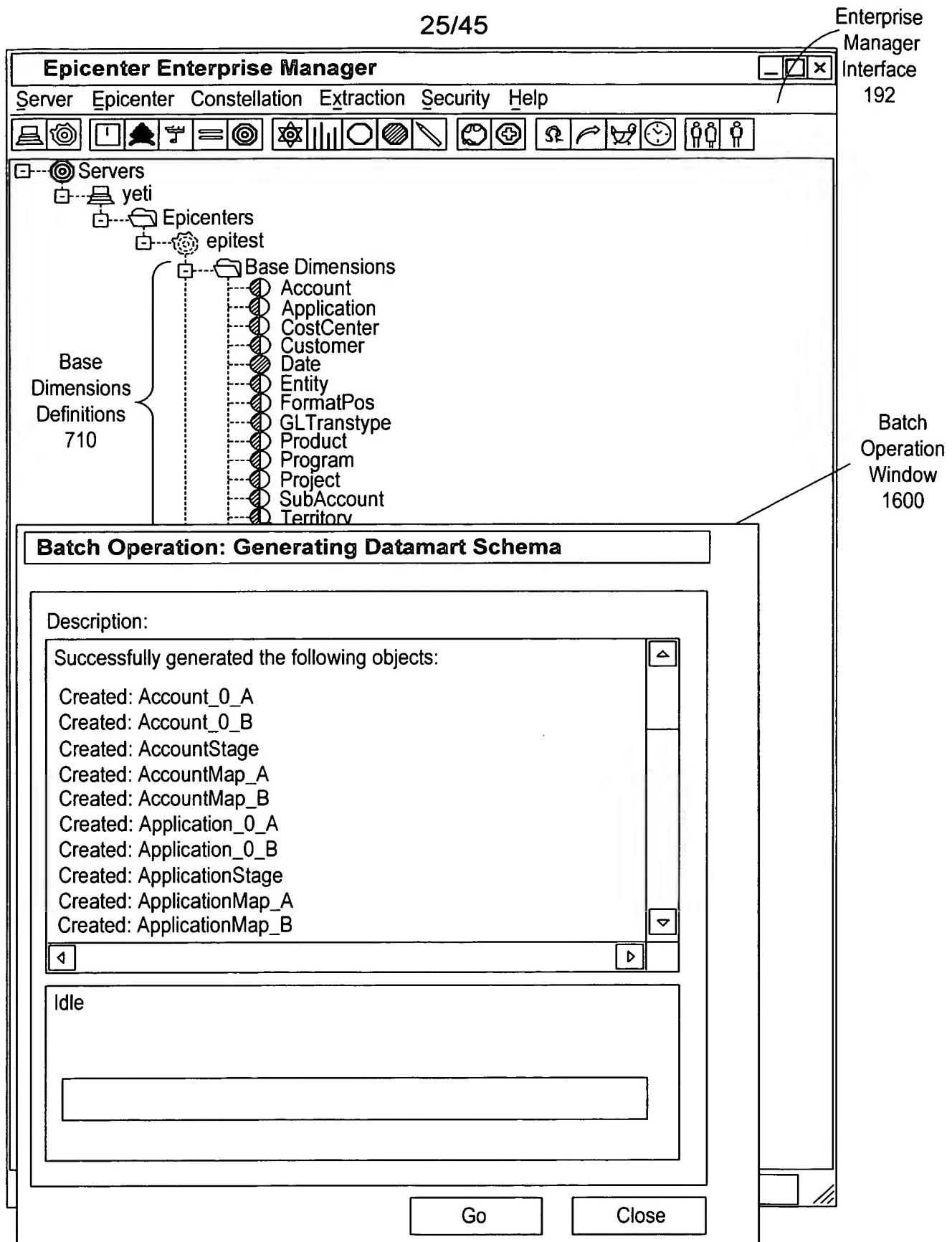


Figure 16

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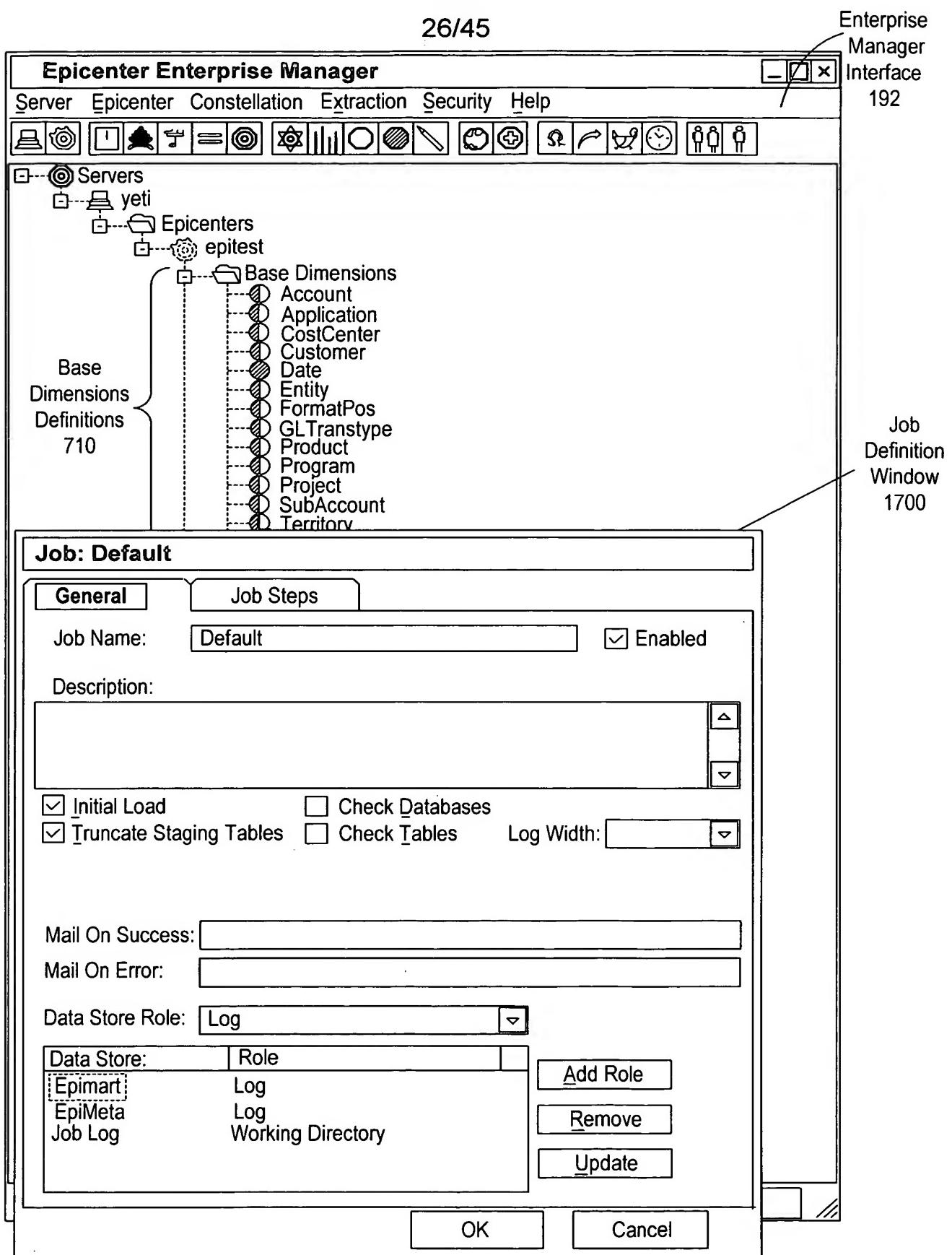


Figure 17

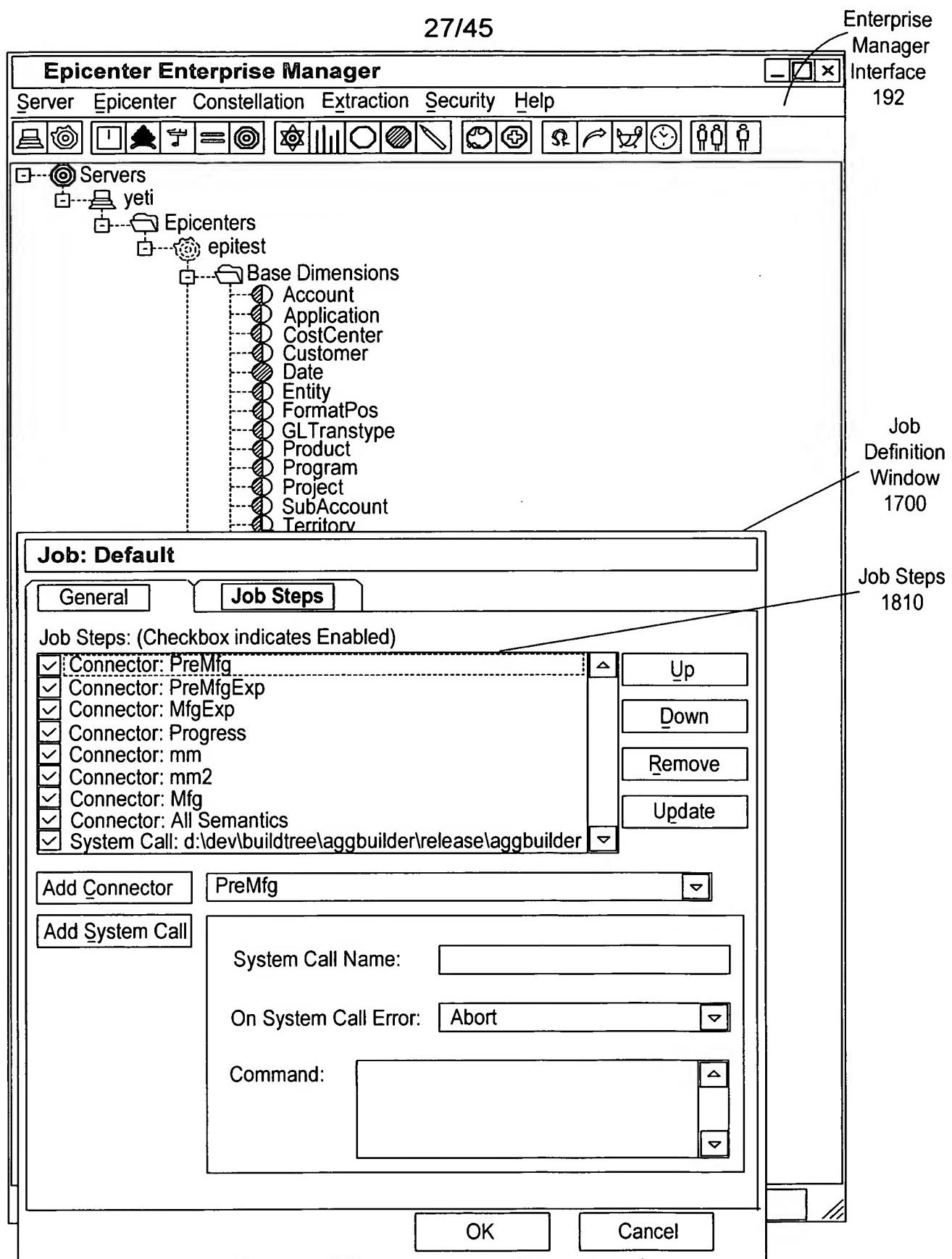


Figure 18

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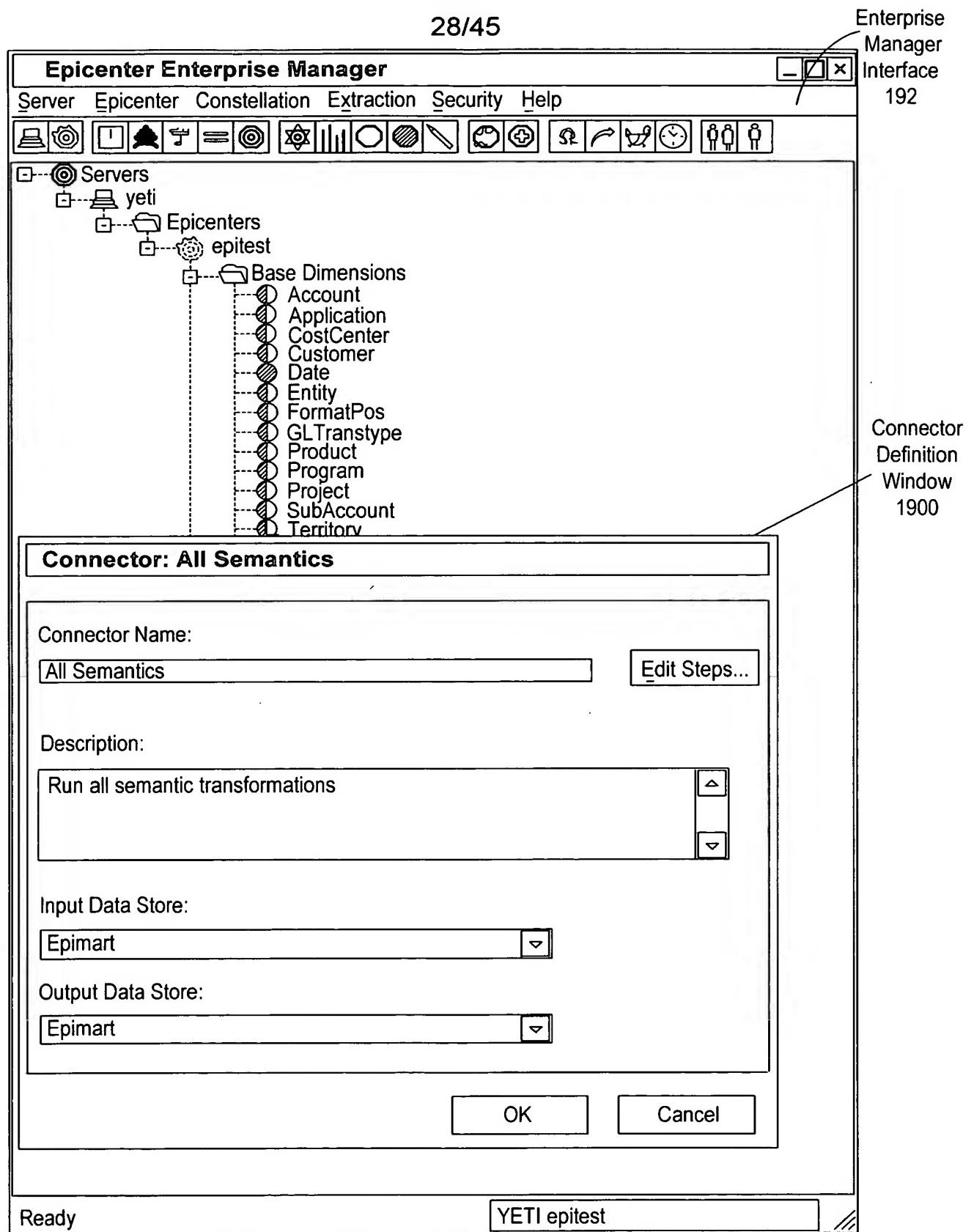


Figure 19

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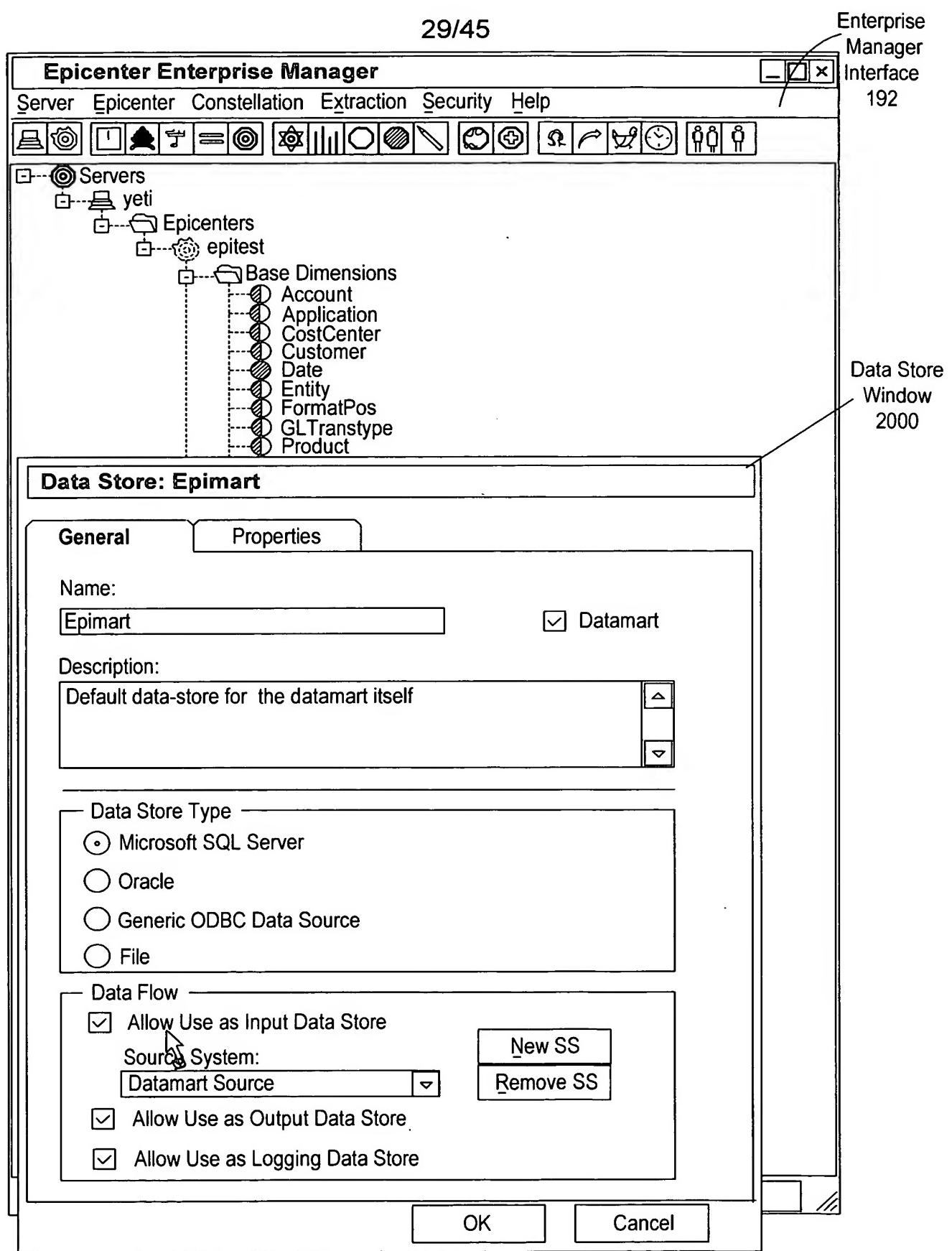


Figure 20

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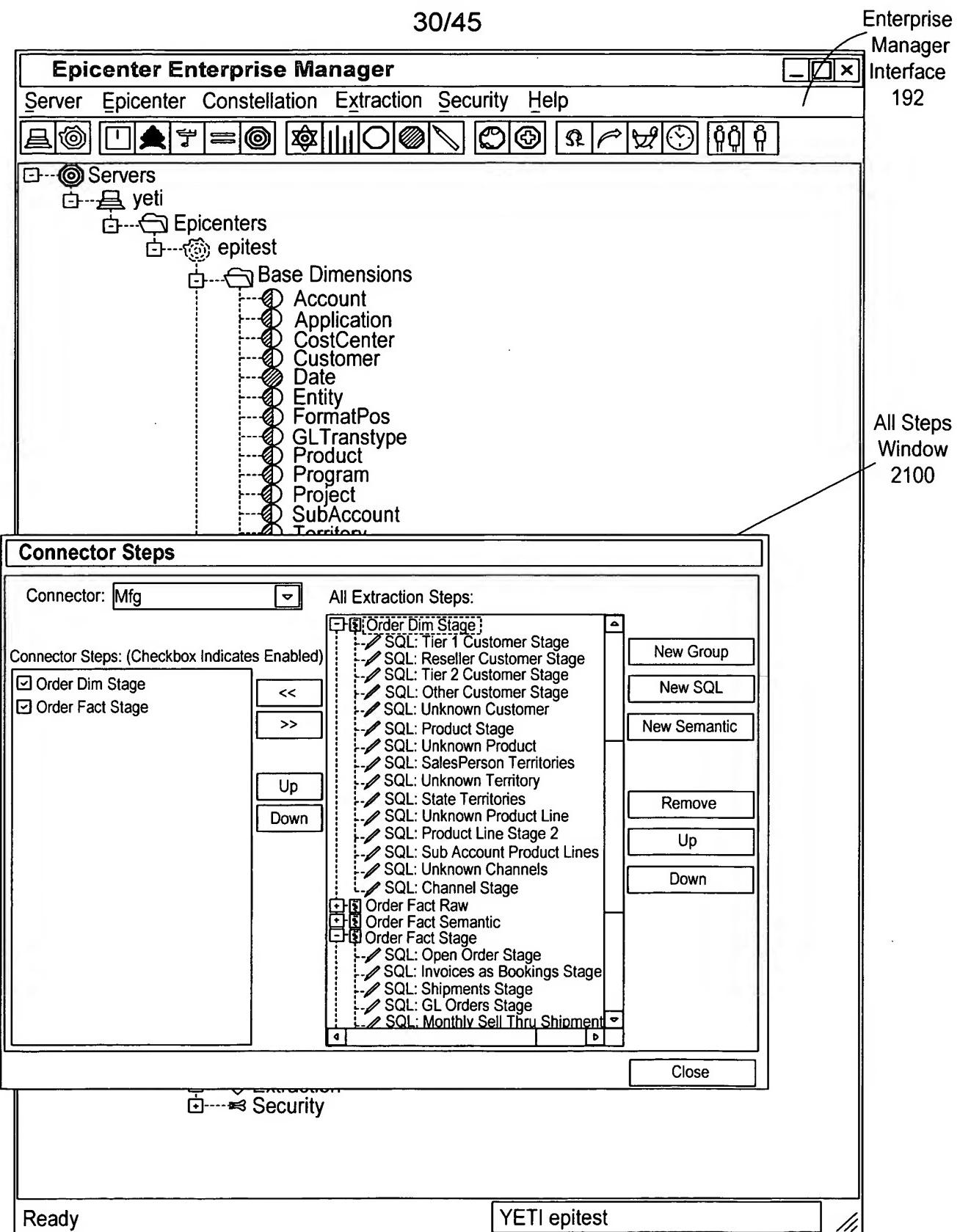


Figure 21

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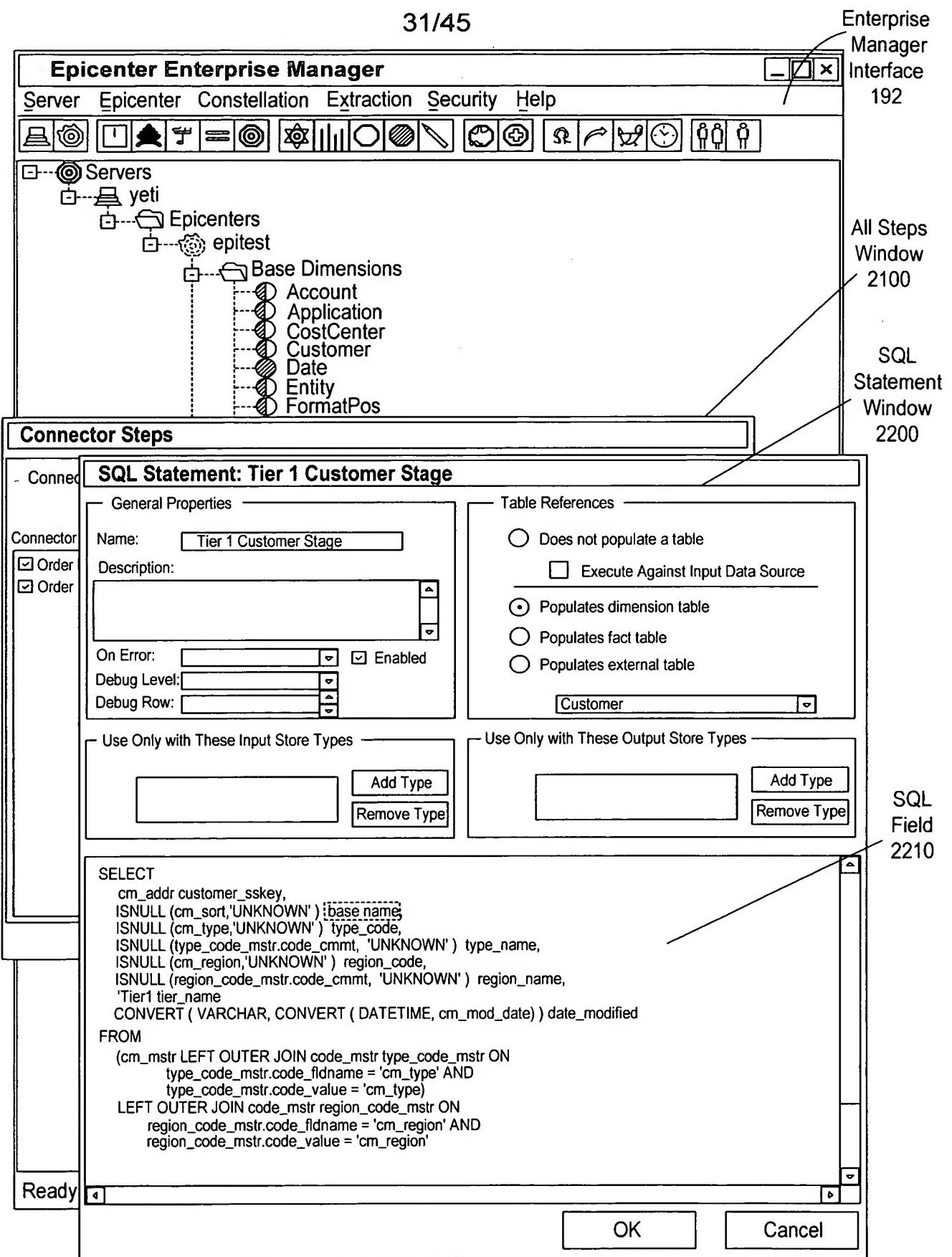


Figure 22

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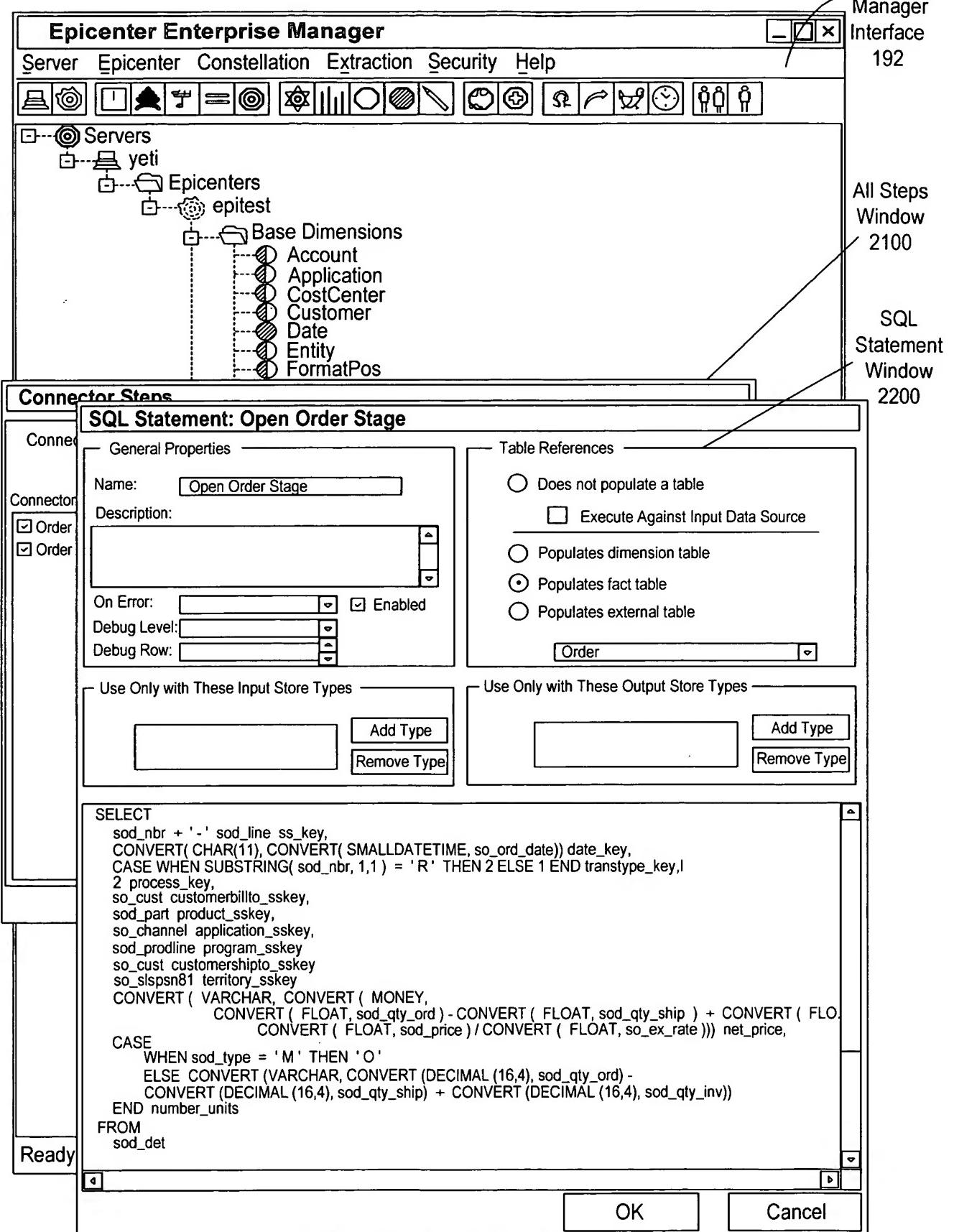


Figure 23

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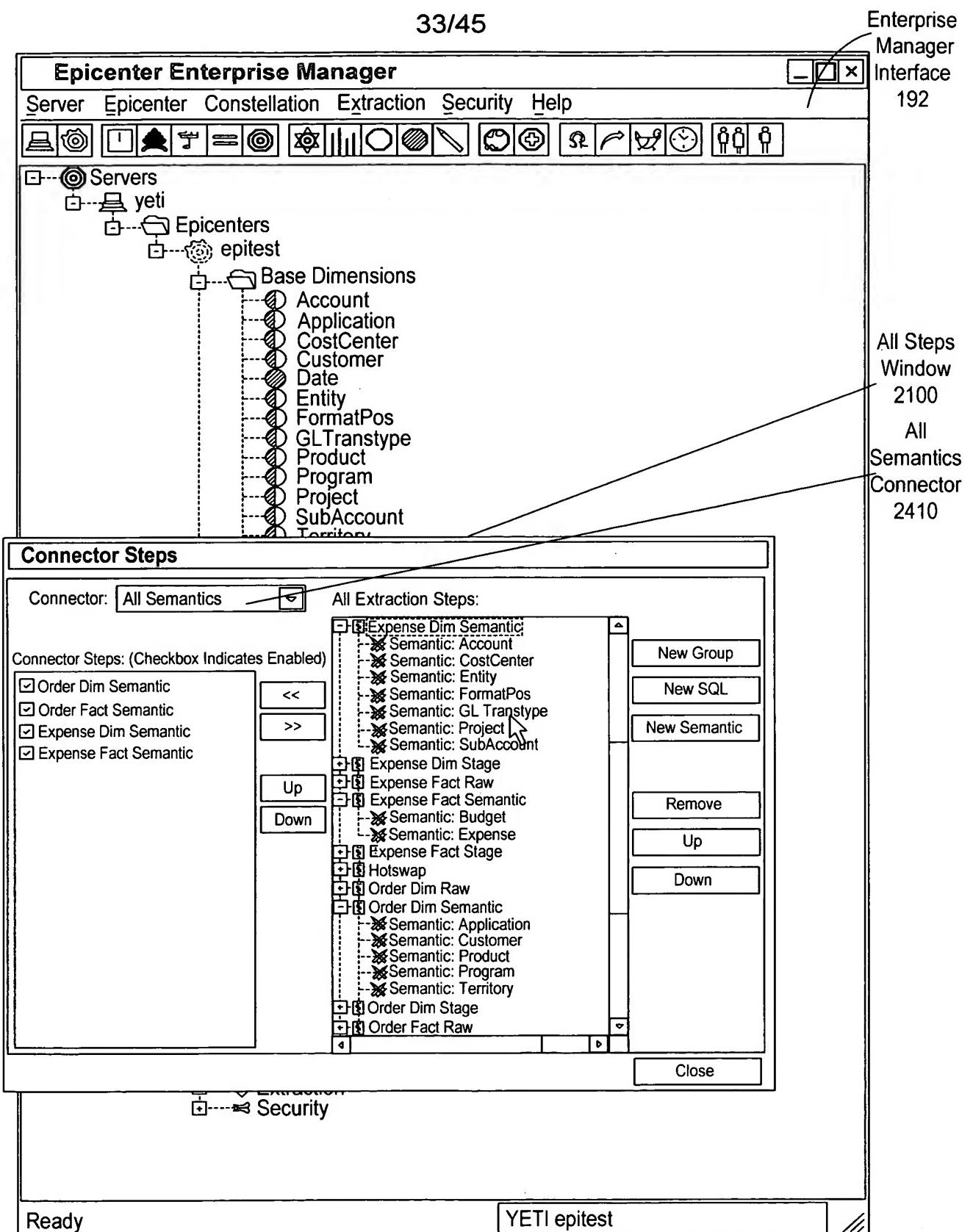


Figure 24

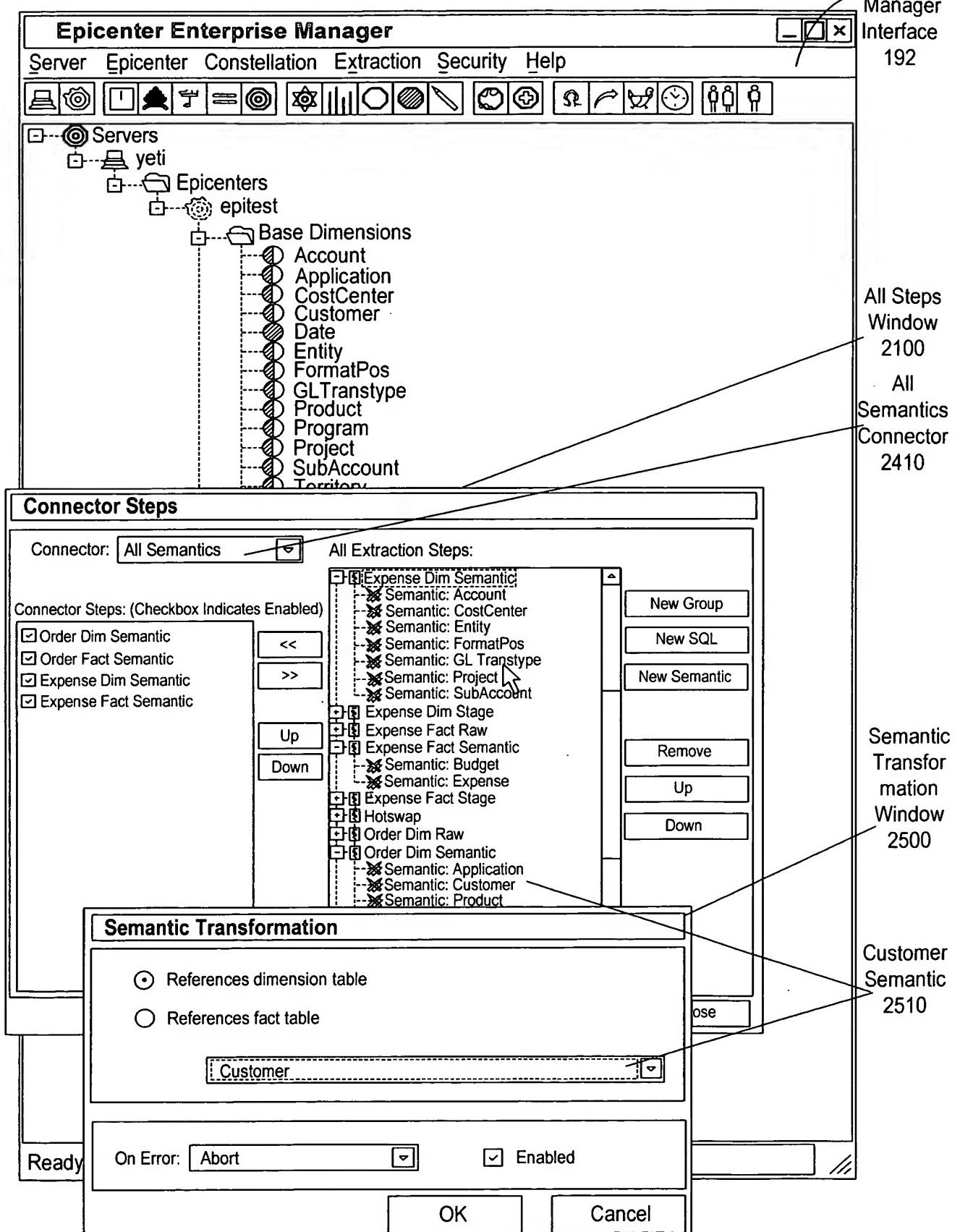


Figure 25

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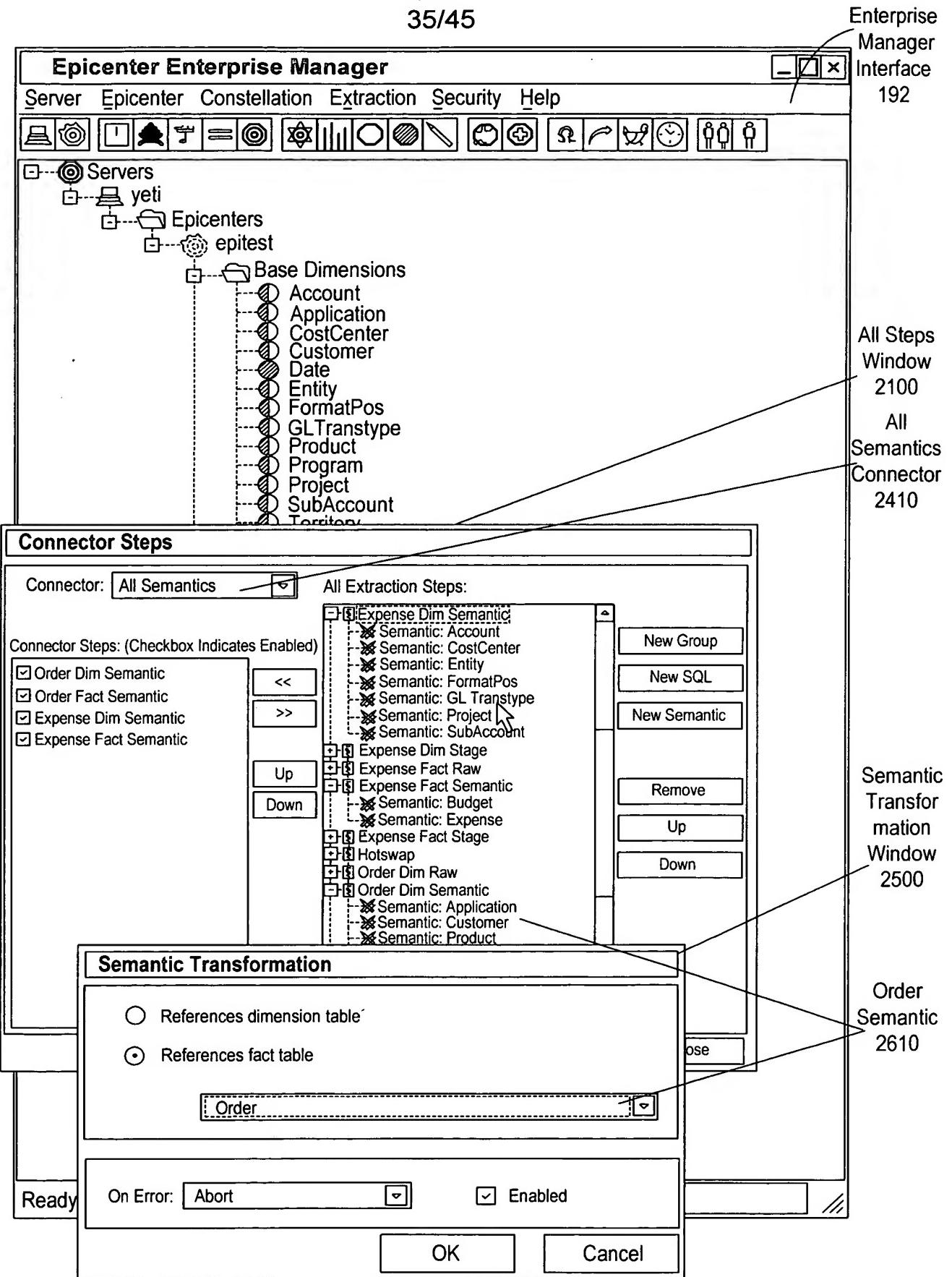


Figure 26

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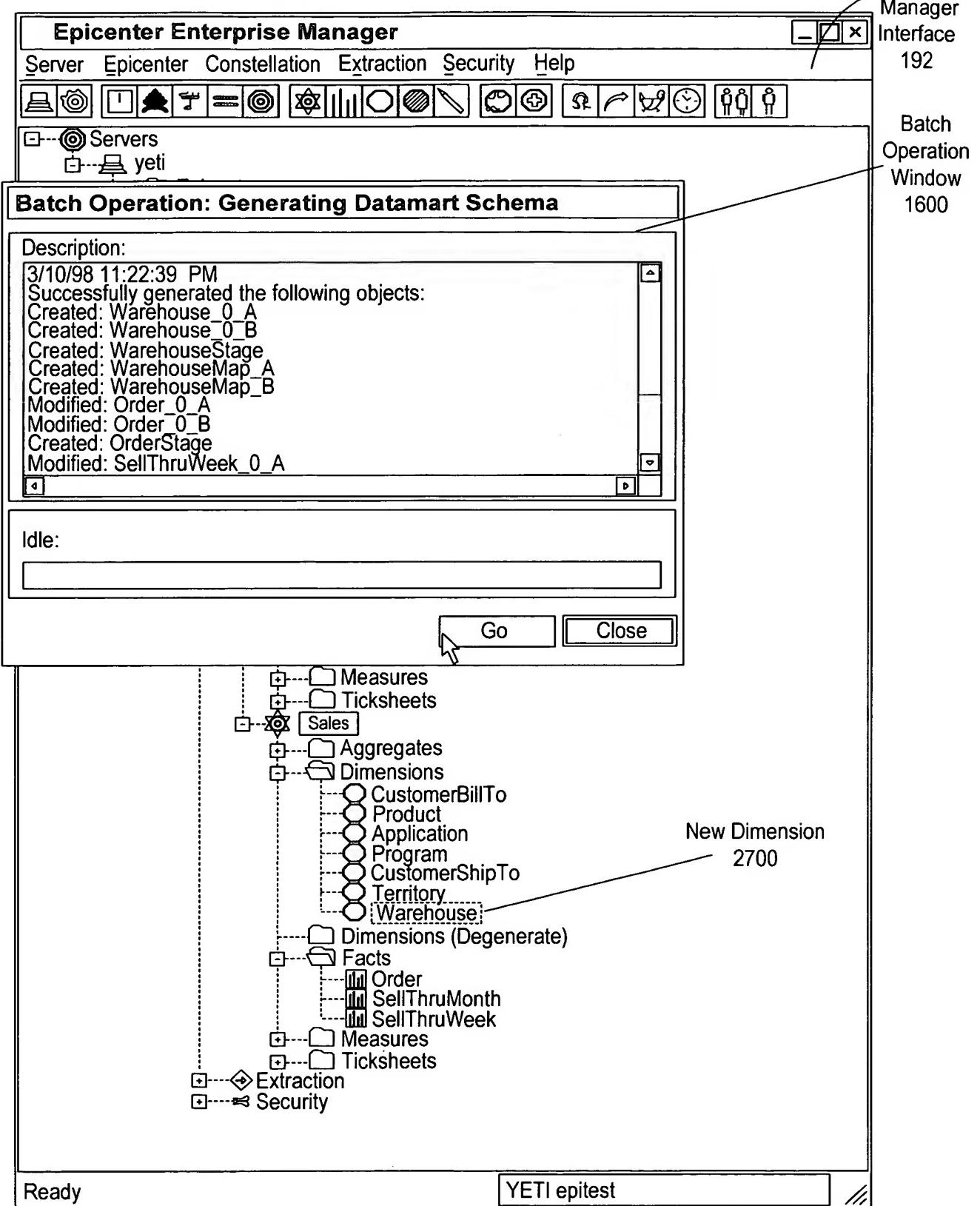


Figure 27

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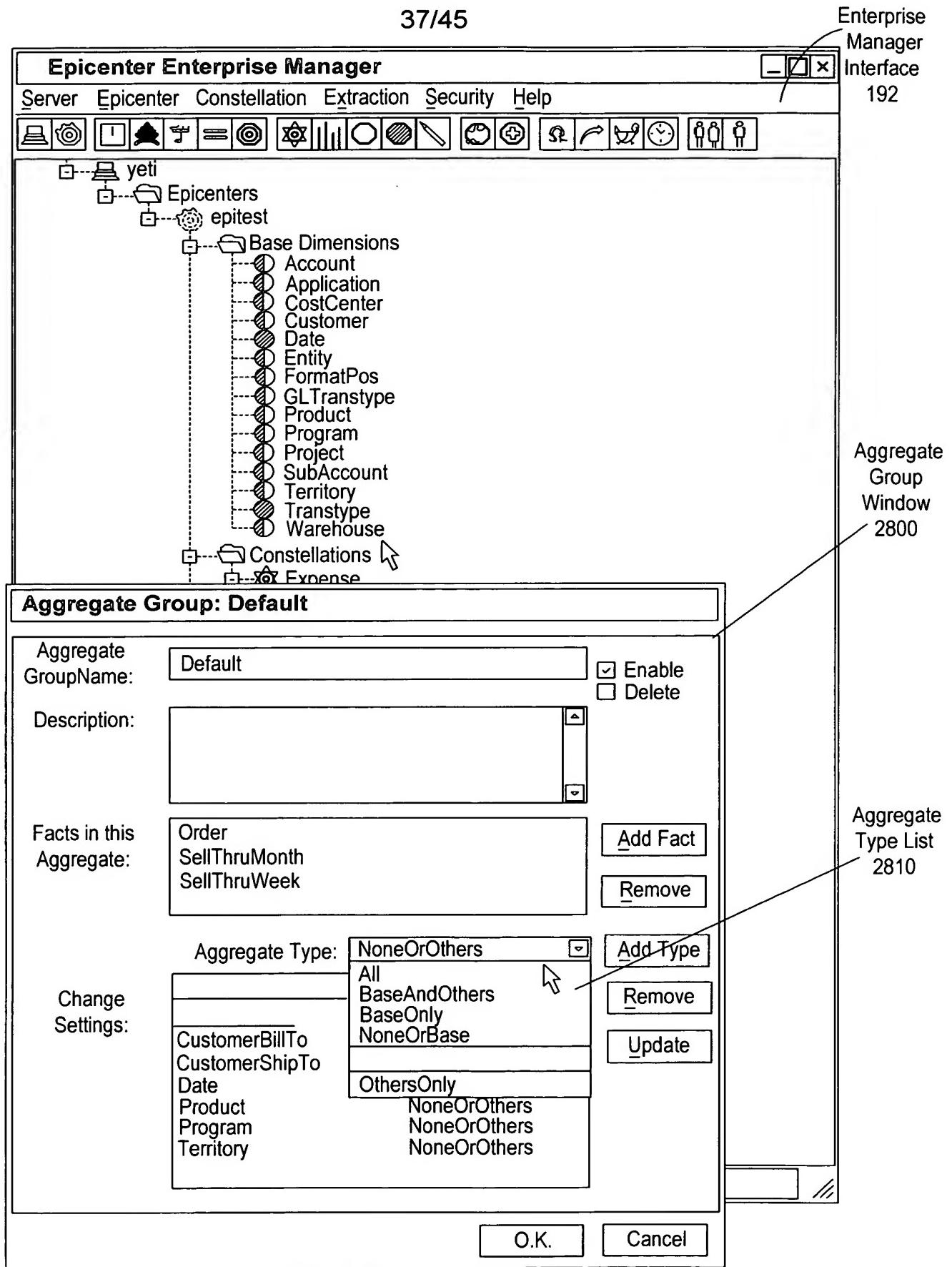


Figure 28

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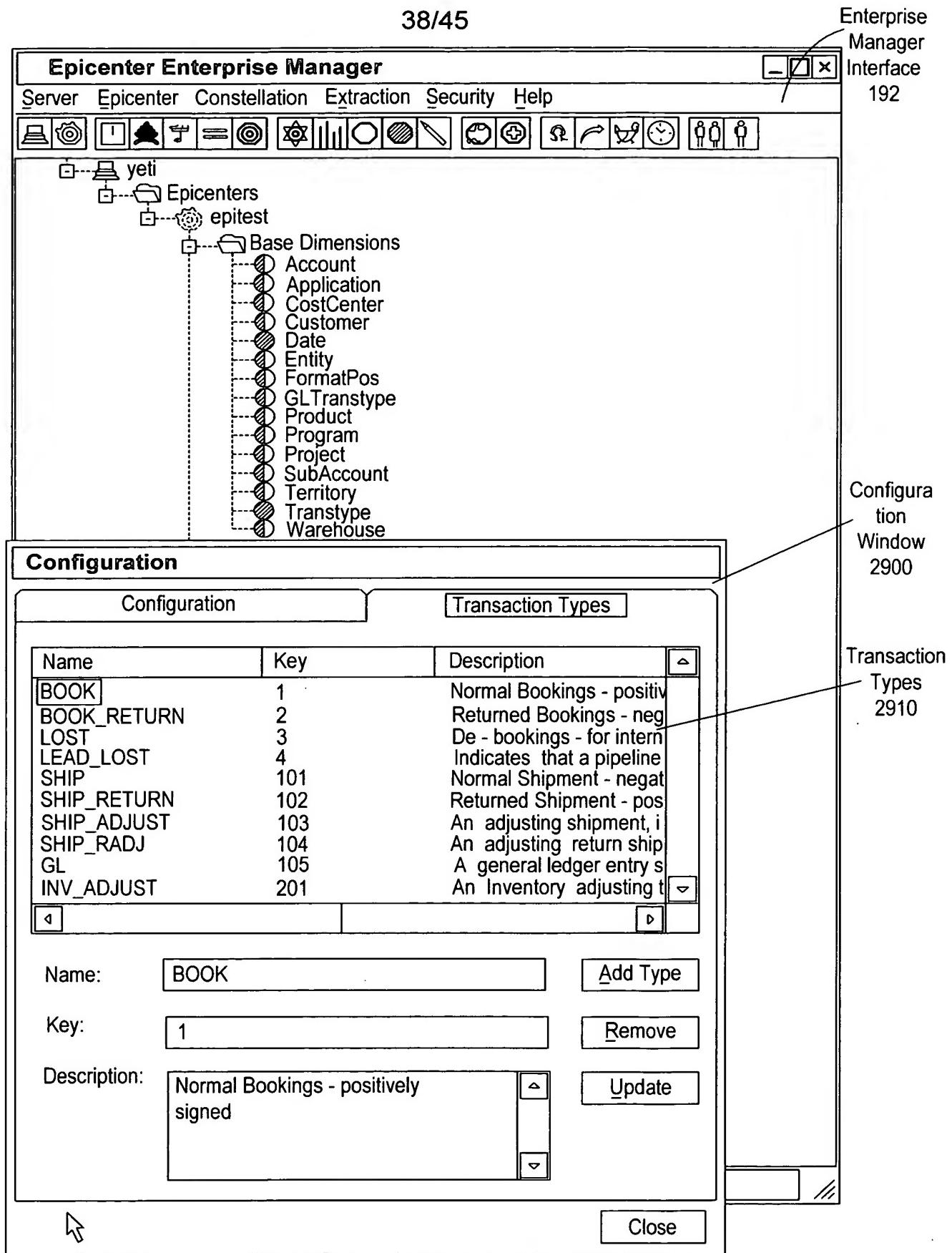


Figure 29

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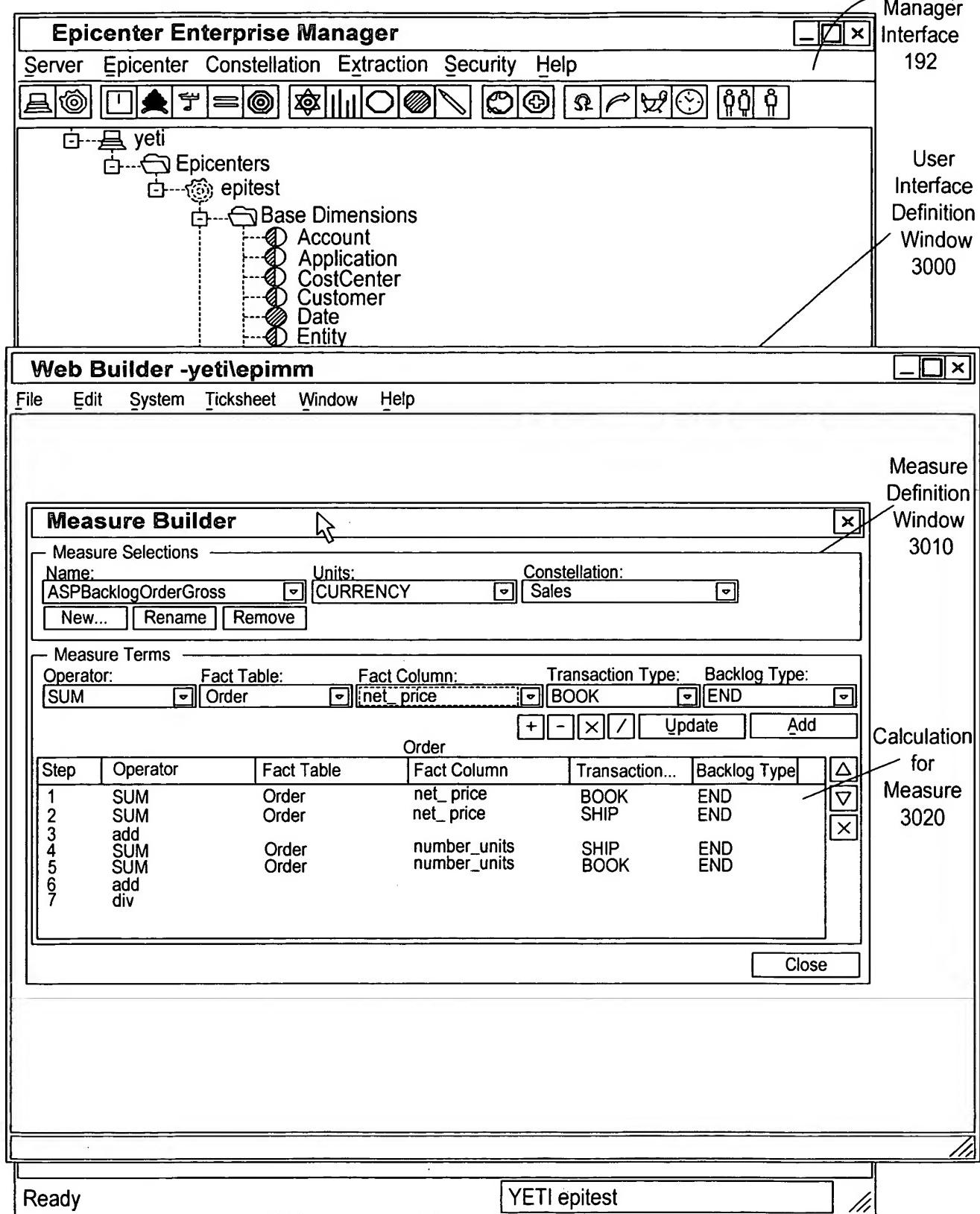


Figure 30

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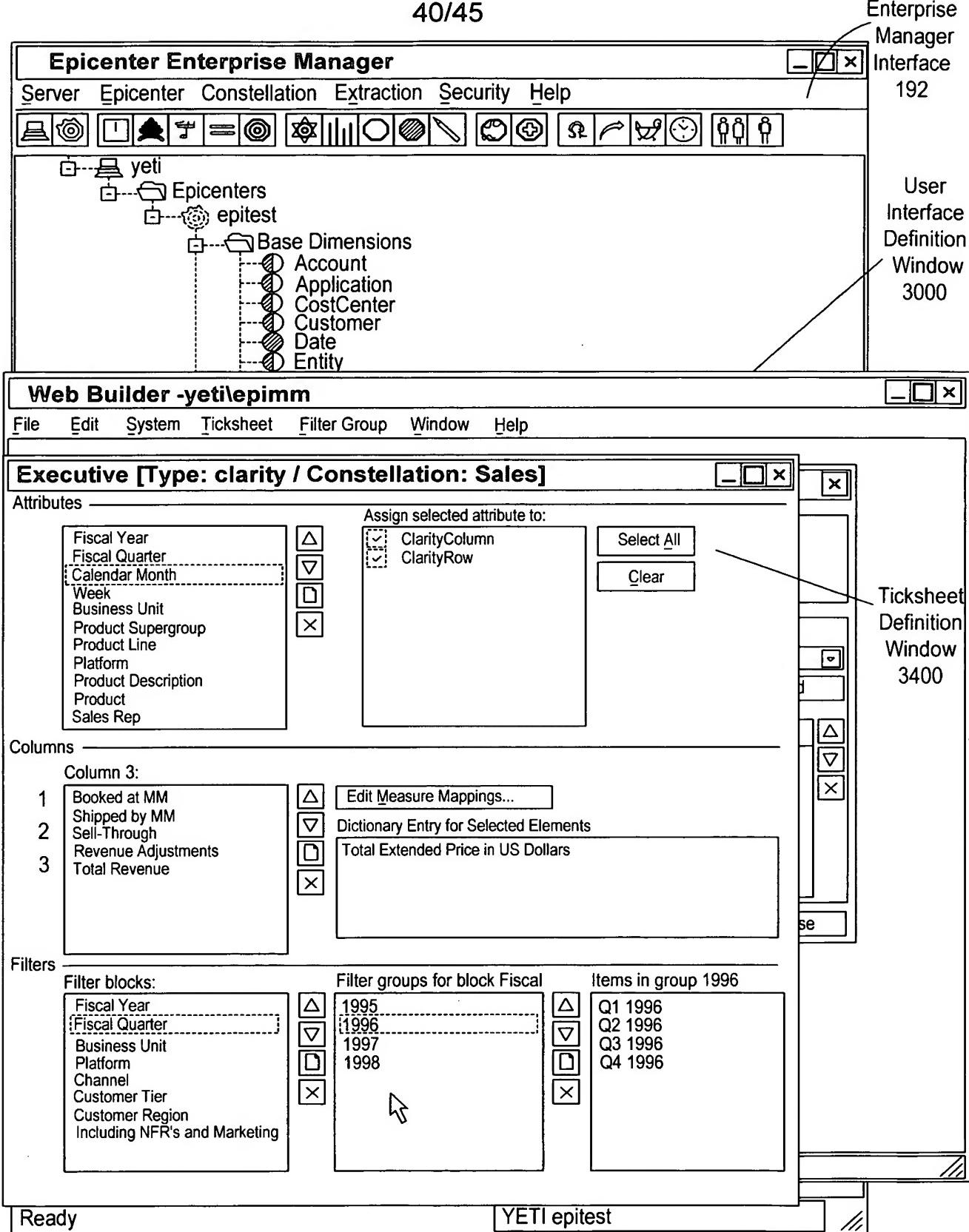


Figure 31

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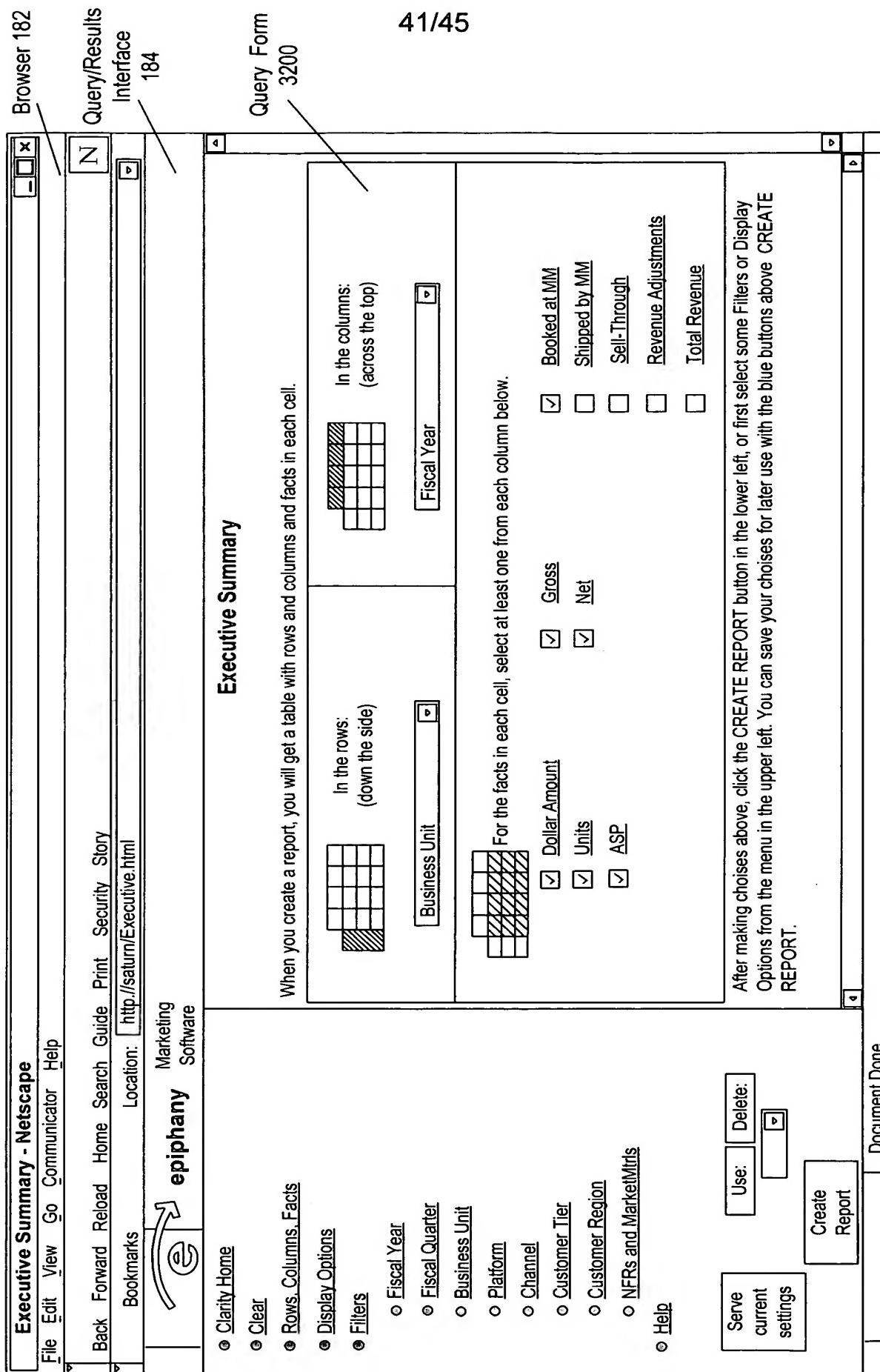


Figure 32

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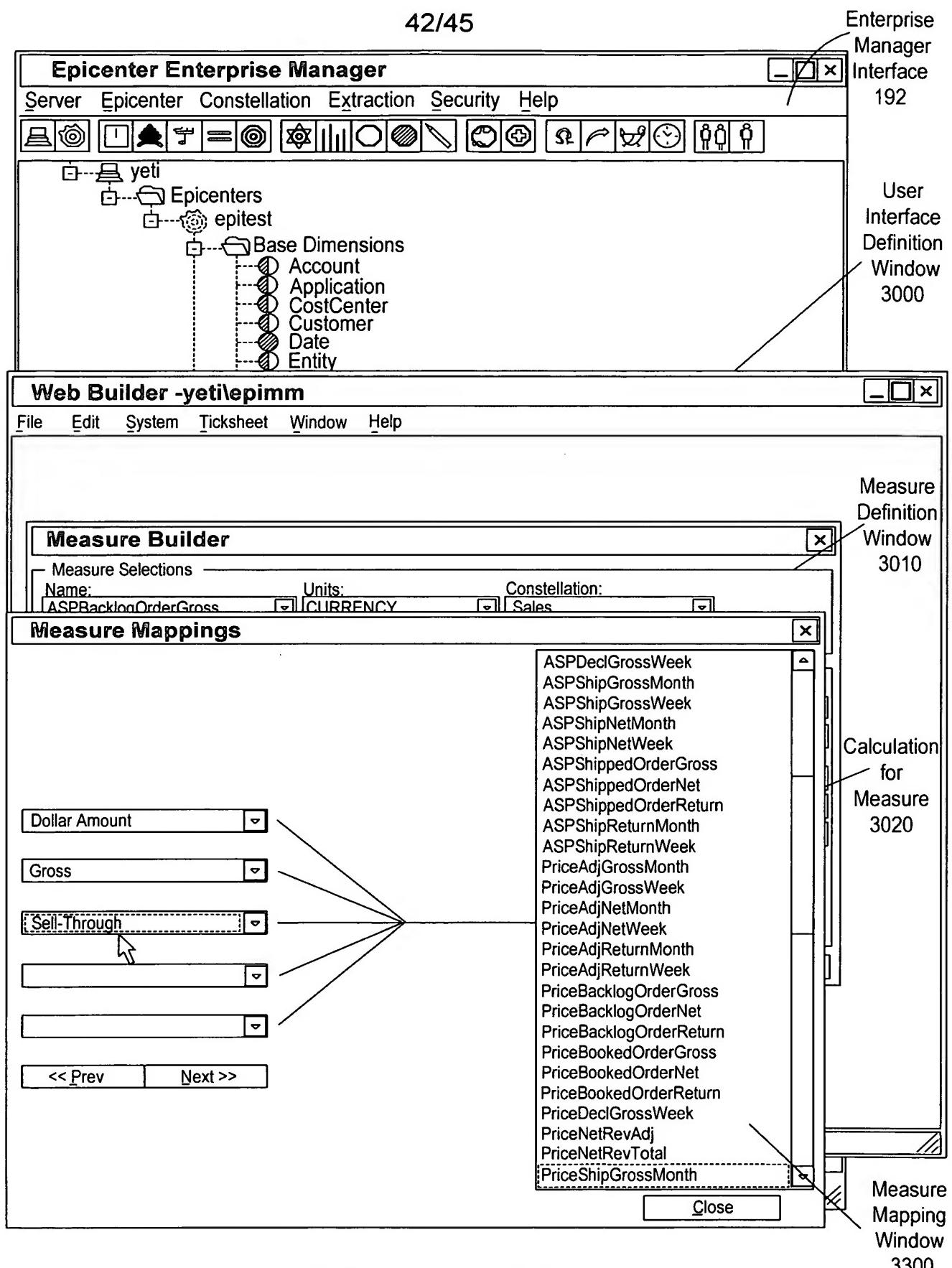


Figure 33

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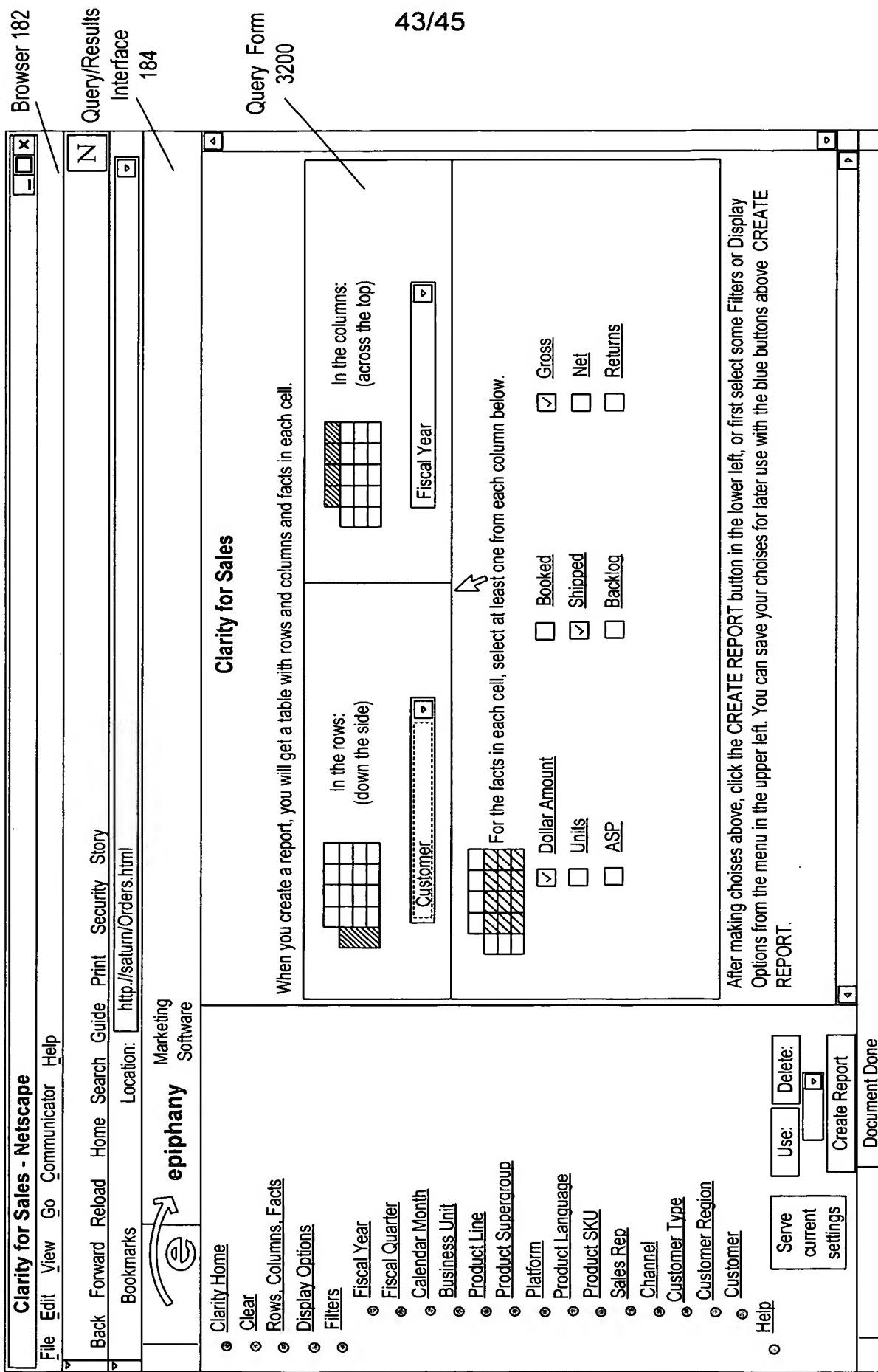


Figure 34

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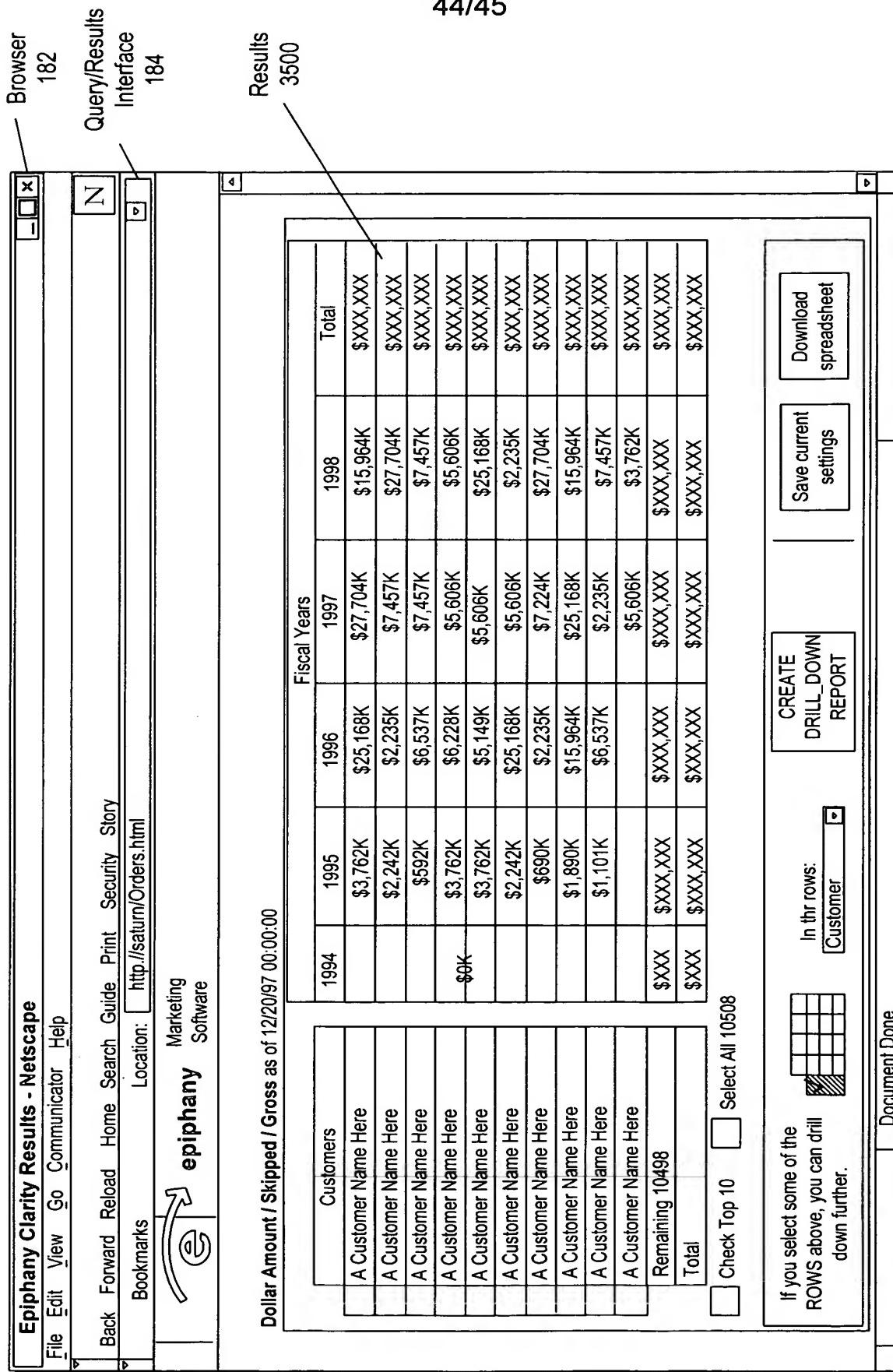


Figure 35

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Clarity for Expenses - Netscape

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Precision:	<input type="radio"/> 0 decimal places		
Include charts:	<input type="radio"/> 1 decimal places		
Which rows:	<input type="radio"/> 2 decimal places		
Sort rows:	<input type="radio"/> 3D		
	<input type="radio"/> O 2D		
	<input type="radio"/> No		
	<input type="radio"/> Top 5		
	<input type="radio"/> Top 10		
	<input type="radio"/> Top 20		
	<input type="radio"/> Top 50		
	<input type="radio"/> Top 100		
	<input type="radio"/> All		
	<input type="radio"/> by amount		
	<input type="radio"/> by row name		

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Figure 36